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GROUNDWATER MONITORING
DATA SUMMARY REPORT
FOURTH QUARTER 1995

DOUGLAS AIRCRAFT COMPANY C-6
FACILITY
TORRANCE, CALIFORNIA

KJ 944016.01

JANUARY 1996

Kennedy/Jenks Consultants

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**GROUNDWATER MONITORING DATA SUMMARY REPORT
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TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	INTRODUCTION	1
2.0	QUARTERLY MONITORING PROGRAM	1
	2.1 Groundwater Sampling Procedures	1
	2.2 Field QA/QC Procedures	2
3.0	EVALUATION OF ANALYTICAL RESULTS	2
	3.1 Groundwater Gradient	2
	3.2 Analytical Data	3

LIST OF TABLES

<u>TABLE</u>	<u>TITLE</u>
1	Observation Well Construction Details
2	Cumulative Summary of Observation Well Data (EPA Method 8240/8260)
3	Cumulative Summary of Observation Well Data (EPA Method 8240/8260), Minor Constituents
4	Summary of Groundwater Elevation Data

TABLE OF CONTENTS
(continued)

LIST OF FIGURES

<u>FIGURE</u>	<u>TITLE</u>
1	Site Vicinity Map
2	Groundwater Observation Well Locations
3	Observation Well Detected Chemical Concentrations, December 1995 Sampling Event
4	Estimated Groundwater Elevation Contour Map, Shallow Zone, December 1995 Sampling Event
5	Chemical Concentration Profiles November 1991 to December 1995

APPENDICES

<u>APPENDIX</u>	<u>TITLE</u>
A	Laboratory Data Sheets
B	Laboratory/Field Quality Control Data Sheets
C	Groundwater Purge and Sample Forms
D	Chain-of-Custody Records

1.0 INTRODUCTION

The Douglas Aircraft Company (DAC) C-6 Facility is located at 19503 South Normandie Avenue, Torrance, California (Figure 1). Quarterly groundwater sampling is being conducted in response to the California Regional Water Quality Control Board - Los Angeles Region correspondence to DAC, dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analysis of groundwater samples collected during the week of 11 December 1995, Fourth Quarter 1995.

2.0 QUARTERLY MONITORING PROGRAM

Fourth Quarter 1995 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 12 December 1995 prior to initiating purging of groundwater from any observation. Static water depths on monitoring wells (MW-9, MW-18 and MW-19) located in the southern portion of the DAC property installed for the Montrose Chemical Corporation Remedial Investigation were not measured for this quarter.

Groundwater samples were collected from the following fifteen wells (Figure 2) and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240/8260 for the Fourth Quarter 1995.

WCC-1S, WCC-2S, WCC-3S, WCC-4S, WCC-5S, WCC-6S, WCC-7S, WCC-8S, WCC-9S, WCC-10S, WCC-11S, WCC-12S, WCC-1D, WCC-3D, and DAC-P1.

Table 1 summarizes observation well construction details. Tables 2 and 3 summarize the results of chemical analysis of groundwater samples and duplicates for major and minor constituents at the C-6 facility, respectively. Chemicals detected in samples from each observation well are shown in Figure 3. Table 4 summarizes available measured groundwater elevations to date. Estimated groundwater elevation contours for the Fourth Quarter are presented in Figure 4. Historical chemical concentration profiles for the indicator chemicals trichloroethene and 1,1-dichloroethene are shown in Figure 5. Copies of laboratory data sheets, laboratory/field Quality Control data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, C, and D respectively.

2.1 Groundwater Sampling Procedures

Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the observation well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three to five wetted casing volumes of groundwater were purged from the well until the following groundwater monitoring parameters had stabilized to within 10% of preceding values: pH, electrical conductivity, and temperature. Purged groundwater was stored onsite in DOT approved 55 gallon barrels pending the results of laboratory analysis of samples.

Following groundwater purging, the flow rate of the submersible pump was reduced to 250 milliliters/minute. To collect a representative groundwater sample, the pump intake valve was positioned at the approximate mid-point of the saturated well screen interval. The recovered water was discharged into three labeled 40-ml capacity vials, preserved with HCl.

2.2 Field QA/QC Procedures

Duplicate groundwater samples were collected for the sampling round on 15 December 1995 for quality control purposes. The duplicate was collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-121595). No further sample identification was provided to the laboratory. Sample DW-121595 was taken from observation well WCC-1S.

Following decontamination of the submersible pump, and prior to collection of groundwater samples from the successive well, an equipment rinsate blank was prepared for laboratory analysis. The equipment rinsate blank was prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in two 40-ml vials preserved with HCl. The blanks were identified following a similar protocol to that used for duplicate water samples and are identified as "EB121595" and "RB121695". The wells sampled before and after rinsate blank preparation were recorded. EB121595 and RB121695 were collected after sampling wells WCC-1S and DAC P-1, the last wells sampled on those days. Trip blanks were also analyzed for sampling and shipping activities on 15 and 16 December and are identified as TB-121595 and TB-121695.

All groundwater, duplicate, and field blank samples were transported in ice-cooled chests to Curtis & Tompkins, Ltd., General Analytical Laboratory, Irvine, California using U.S. EPA-recommended Chain-of-Custody procedures.

3.0 EVALUATION OF ANALYTICAL RESULTS

3.1 Groundwater Gradient

Groundwater levels were measured prior to sampling on 12 December 1995 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 15.35 feet below mean sea level (MSL) to 16.59 feet below MSL. An estimated potentiometric surface map for the shallow zone as measured on this day is presented as Figure 4. The groundwater gradient in the shallow zone was generally south-southeast with a southerly directed trough-like depression between observation wells WCC-10S and WCC-12S.

Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone. Groundwater elevation in the two wells (WCC-1D and WCC-3D) was approximately 16.31 and 16.17 feet below MSL, respectively.

3.2 Analytical Data

The results of chemical analysis of groundwater and duplicate samples are summarized in Tables 2 and 3. Table 2 lists major constituents and Table 3 lists additional minor constituents of samples tested. The duplicate groundwater samples are indicated by an asterisk and are presented with the "original" groundwater samples. These tables include cumulative analytical data for all monitoring wells and detection limits (where available) for the listed chemicals.

The following observations are noted:

- Data for groundwater samples collected from well DAC-P1, located at the upgradient property boundary, indicate a TCE concentration of 20,000 micrograms per liter ($\mu\text{g}/\text{L}$) coming onto DAC's property. This test result is within the historical range. Other chemicals detected in well DAC-P1 include 1,1-DCE, 1,1-DCA, 1,1,1-TCA, cis- and trans-1,2-DCE, chloroform and toluene. The concentrations of these chemicals were within historical ranges though low level detections of 1,1-DCA, 1,1,1-TCA, and trans-1,2-DCE have not been reported for this well in several years. Future monitoring will provide data to assess the changes in chemical compounds observed this quarter. DAC-P1 is screened in the shallow zone.
- Background concentrations of TCE and 1,1-DCE in the shallow zone upgradient or cross gradient wells WCC-10S, WCC-2S, and WCC-11S decreased slightly, but are within historical ranges at concentrations of 60 to 210 $\mu\text{g}/\text{L}$ of TCE and tens of $\mu\text{g}/\text{L}$ of 1,1-DCE.
- Groundwater elevation data (Figure 4) and chemical concentration data (Figure 3) indicate that chemical transport in the shallow zone is generally in a southerly to southeasterly direction in the vicinity of buildings 36 and 41. Most chemical concentration data from the eastern boundary observation wells (WCC-5S, and WCC-9S) are within the same range or lower than upgradient or cross gradient "background level" wells (WCC-10S, WCC-2S and WCC-11S).
- WCC-3S data continue to show decreases in 1,1-DCE and toluene, but concentrations are still within historical ranges.
- Increases of 1,1-DCE, 1,1,1-TCA, and toluene concentrations were observed for well DAC-P1.
- Decreases of 1,1-DCE, 1,1,1-TCA, TCE, and toluene concentrations were observed in well WCC-3D, though the concentrations were within historical variation.
- WCC-6S data, which showed significant decreases in 1,1-DCE, 1,1,1-TCA, MIBK, cis-1,2-DCE, and toluene in the previous sampling event, show an increase in concentrations to historical ranges.
- Concentrations of 1,1-DCE and TCE in wells WCC-1S and WCC-8S, which showed decreases in the previous sample event, show an increase to more recent historical ranges.

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- Other chemical concentration variances within observation wells were typical of historical ranges.
- Analytical data from the equipment rinsate blanks, sample duplicates, trip blanks, and laboratory spikes and duplicates are indicative of reliable data. A detection of 1,1-DCE in the rinsate blank from 15 December was reported at the detection limit of 2 µg/L and is not considered to have potential to impact later samples or to be problematic at such low concentrations.

Due to laboratory overload, the Fourth Quarter sample analysis was subcontracted by Curtis & Tompkins Laboratory to Calscience Laboratory in Garden Grove. The subcontract laboratory did not test samples for keytones and several reported values have been flagged as estimated values by Curtis & Tompkins Laboratory. Absence of these data for this quarter have a relatively insignificant impact on the eight year historical record of monitoring data at the C-6 facility. These compounds will be reported in subsequent quarterly monitoring events.

TABLES

TABLE 1
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH QUARTER, 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
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Well	Date Constructed	Well Diameter (inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)	Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size	Hydrogeologic Unit Screened
WCC-1S ¹	3/26/87	2	91	78-88	72	Schedule 40 PVC0.020-Inch Slots	Shallow
WCC-2S ¹	10/28/87	4	90.5	70-90	63	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-3S ¹	10/26/87	4	92	69-89	64	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-4S ¹	10/27/87	4	91.5	70.5-90.5	65	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-5S ¹	11/24/87	4	91	60.5-91	58.5	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-6S ²	9/22/89	4	91	60-90	N/A ³	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-7S ²	6/8/89	4	90.5	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-8S ²	6/12/89	4	90	59.5-89.5	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-9S ²	9/21/89	4	91.5	60-90	55	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-10S	6/7/89	4	90.8	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-11S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-12S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
DAC-P ¹	9/25/89	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-1D ²	6/30/89	4	140	120-140	115	Schedule 40 PVC0.010-Inch Slots	Deeper
WCC-3D ²	6/27/89	4	140	120-140	114	Schedule 40 PVC0.010-Inch Slots	Deeper
MW-8 ⁴	5/10/89	4	85	65-80	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-9 ⁴	5/9/89	4	85	66-81	61	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-18 ⁴	3/29/90	4	84	68-83	67	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-19 ⁴	3/30/90	4	80	63-79	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow

NOTES:

1. Data from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990
3. N/A = Not Available
4. Data from Hargis + Associates, Final Draft, Remedial Investigation, Montrose Site, Torrance, Ca, October 1992

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH QUARTER 1995
Douglas Aircraft C-6 Facility
Torrance, CA

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 -- Estimated

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TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.												
WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK	
WCC-3S	11/02/87	38,000	-	110,000	10,000	54,000	-	-	-	80,000	-	
	11/12/87	88,000	1,000	54,000	11,000	70,000	<3000	1,000	140,000	32,000	-	
	07/13/89	18,000	<500	56,000	7,700	<500	<500	600	<500	56,000	-	
	08/23/89	58,000	<1,000	78,000	6,000	<5000	<1,000	<1,000	<1,000	27,000	12,000	
	11/14/91	12,000	400	6,900	7,900	70,000	550	550	250	51,000	<10,000	
	06/17/92	25,000	<5,000	13,000	13,000	100,000	<5,000	<5,000	<5,000	52,000	<3,000	
	09/23/92	22,000	<500	7,800	12,000	82,000	<500	<500	<500	44,000	4,000	
	12/09/92	21,000	<500	5,600	11,000	80,000	700	600	600	42,000/42,000	<50/-50	
	'03/18/93	20,000/20,000	650/510	21,000/22,00	8,800/8,800	44,000/45,000	650/640	640/670	480	210	37,000	<2,000
	06/08/93	16,000	420	5,900	8,600	79,000	520	100	<400/<10	46,000/40,000	<8,000/660	
	*08/25/93	21,000/20,000	500/560	10,000/9,500	11,000/9,700	50,000/49,000	670/700	680/710	<400/<10	280	50,000	<4,000
	11/19/93	26,000	690	19,000	10,000	47,000	1,100	840	<200	25,000	<4,000	
	22/4/94	15,000	310	9,600	2,500	15,000	2,500	360	<200	23,000	<4,000	
	6/13/94	13,000	310	6,200	820	9,900	4,100	360	<200	<1000/<1000	<1000/<1000	
	*9/9/94	23,000/25,000	520/560	9,000/9,800	<500/<500	6,000/5,000	7,700/8,400	600/640	<500/<500	200	35,000	<4,000
	12/22/94	20,000	440	6,700	390	3,400	6,700	530	<200	230	<4,000	
	3/14/95	24,000	570	8,700	2,300	4,600	6,200	670	<200	40,000	<4,000	
	6/13/95	22,000	450	4,800	1,200	6,600	6,300	500	<400	39,000	<8,000	
	9/7/95	13,000	480	4,100	910	4,600	6,000	520	76	31,000	<200	
	12/16/95	12,000	350	3,100	670	nr	4,400	400	45	130	nr	
WCC-4S	11/02/87	360	-	14	700	-	-	2	2	-	-	
	11/12/87	1,200	-	35	690	-	-	-	-	<3	<5	
	7/13/89	170	<3	11	270	-	10	<3	<3	-	-	
	08/23/89	360	<5	7	410	<20	15	<5	<5	-	-	
	11/18/91	1,000	<25	20	2,200	<30	-	-	-	<25	<50	
	06/17/92	920	<10	25	1,500	<50	<25	<25	<25	<10	<50	
	09/23/92	1,400	<10	20	1,900	<50	<10	10	10	<10	<10	
	12/08/92	1,000	<10	10	1,600	<50	10	<10	10	<10	<50	
	03/17/93	810	8	14	1,200	<5	8	5	5	6	<10	
	06/08/93	1,300	<10	12	1,800	<100	10	<10	<10	<10	<200	
	*08/25/93	1,100	<10	<10	1,400	<100	<10	6	4	9	<80	
	11/19/93	610	17	8	700	<40	8	5	5	6	<80	
	2/24/94	1,100	5,8	8,8	980	<40	7,1	5,2	<4	<4	<80	
	6/14/94	800	<4	5	940	<40	7,1	5,2	<4	<4	<80	
	9/9/94	1,000	<20	<20	1,300	<200	<20	<20	<20	<20	<400	
	12/22/94	670	<10	<10	750	<100	<10	<10	<10	<10	<200	
	3/14/95	400	9,8	4,9	450	<40	4,9	<4	<4	<4	<80	
	6/13/95	1,100	8,6	<6,6	1,100	<66	7,9	<6,6	7	7	<130	
	9/7/95	910	8	6	1,200	<10	10	9	7	13	<10	
	12/15/95	1,100	4	<2	1,200	nr	8	8	7	2	nr	

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.													
WELL I.D.	SAMPLE DATE	1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK	
WCC-7S	07/13/89 08/23/89 11/18/91	850 1,100 390	<10 <30	110 66	1,300 1,400	<50 <100	26 31	11 <30	<10 <30	<10 <30	<10 <30	-	
	06/17/92 09/23/92 12/08/92	230 140 140	<5 <5 <5	<5 570 430	<10 <30 <30	<5 55 45	<5 4 <2	<5 4 <2	<5 4 <2	<5 4 <2	<5 4 <2	<10 <30 <30	
	03/17/93 06/07/93 08/25/93 11/19/93	77 120 70 56	<2 <2 <4 <2	<2 200 210 130	<20 330 <40 <20	<5 4 4 <20	<2 4 4 <2	<2 4 4 <2	<2 4 4 <2	<2 4 4 <2	<2 4 4 <2	<10 <40 <80 <40	
	2/24/94 6/13/94 9/8/94 12/22/94 3/14/95 6/13/95 9/7/95 12/15/95	75 58 50 94 53 110/98 150 98	<2 <2 <2 <2 <2 <2<2 <5 <2	<2 2 <2 <2 <2 <2 <2 <2	140 110 250 94 84 230/220 200 140	<20 <20 <20 <20 <20 <20<20 <10 nr	2.5 2.5 <2 <2 <2 <2 <2 <2	<2 2 <2 <2 <2 <2 <2 <2	<2 2 <2 <2 <2 <2 <2 <2	<2 2 <2 <2 <2 <2 <2 <2	<2 2 <2 <2 <2 <2 <2 <2	<2 2 <2 <2 <2 <2 <2 <2	<40 <40 <40 <40 <40 <40<<40 <10 nr
WCC-8S	07/13/89 08/23/89 11/15/91 *06/17/92 09/23/92	430 820 2,600 2,200/2,300 2,800	<5 <5 - <25/<50 <20	160 130 400 180/180 200	240 430 3,000 2,400/2,600 3,100	<30 <30 - <50/<100 <100	7 40 <20	7 40 <20	<25/<50 40 20	<5 <5 25 20	<5 <5 25 <20	-	
	12/08/92 03/17/93 06/08/93 08/25/93 11/19/93 2/24/94 6/13/94 9/7/94 12/22/94 3/14/95 6/13/95 9/7/95 12/15/95	2,000 1,800 3,000 3,100 3,300 3,400 4,000 4,600 4,000 4,500 4,200 2,200 4,200	<20 11 <20 <20 <20 <20 <20 <40 <20 <40 <40 <40 10 16	100 180 300 330 330 300 290 280 230 220 150 110 120	2,500 1,500 2,000 2,200 2,000 1,200 2,200 3,100 2,100 2,600 2,400 1,700 1,700	<100 5 <200 <200 <200 <200 <200 <400 <500 <200 <400 <400 <400 nr	<5 15 <20 40 <20 35 44 50 <20 41 40 15 18	30 10 40 40 50 20 40 50 43 40 40 28 9	<20 10 40 40 50 20 40 50 25 40 40 22 10	<20 15 <20 <20 20 20 20 20 24 20 20 20 20	<20 20 20 20 20 20 20 20 24 20 20 20 20	<100 <10 <400 <400 <400 <400 <400 <400 <400 <400 <400 <400 <400	

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WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l								MEK	
		1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM		
WCC-11S	11/15/91 06/16/92 09/21/92 12/08/92 03/16/93 06/07/93 08/24/93 *11/19/93 2/23/94 6/10/94 *9/8/94 12/21/94 3/13/95 6/12/95 *9/6/95 12/15/95	10 21 17 13 25 16 14 14/14 16 16 20/19 26 16 22 31/30 34	- <5 <1 <1 <2 <2 <2 <2<2 <2 <2 <2<2 <2<2 <2 <2 <5<5 <2	- <5 <1 <1 <2 <2 <2 <2<2 97 100 85 140/120 130 100 130 190/200 210	80 120 140 83 160 110 100/100 <20 <20 <20 <20 <20 <20 <20 <10/10 nr	- <5 <1 <1 <5 4 <2 4 4.8 4.8/5.9 4.2 5.6 6 <5/5 <2	- <5 <1 <1 <2 <2 <2 <2 <2<2 <2<2 <2 <2 <2 <5/5 <2	- <2<2 <2<2 <2 <2 <2 <2<2 <2<2 <2 <2 <2 <2 <2	- <2<2 <2<2 <2 <2 <2 <2<2 <2<2 <2 <2 <2 <2 <2	- <5 1 1 2 2 2 2 2 2 2 2 2 2 2 2	<10 <5 <1 <1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 nr
WCC-12S	11/18/91 *06/16/92 09/22/92 12/08/92 03/17/93 06/07/93 08/25/93 11/19/93 2/24/94 6/13/94 9/9/94 12/22/94 3/14/95 6/12/95 9/6/95 12/15/95	300 250/260 130 160 100 130 100 45 89/77 84 97 52 53 72 60 44	- <5/5 7 <5 4 2 2 <4 9 15 <2 17 18 28 32 10	17 500 1 550 410 370 390 220 270/220 270 160 190 230 330 300 140	900 660/710 <10/10 <5 <5 <30 <5 4 5 <40 <20 <20 <20 2.9/3.3 2.6 <2 <2 2.1 <2 <2 <10 nr	- <5/5 3 5 4 8 5 4 4 2 4 2 2 2 2 2 2 nr	- <5/5 3 5 3 2 2 2 4 2 2 2 2 2 2 2 2 nr	- <5/5 <1 5 5 3 2 2 2 2 2 2 2 2 2 2 2 nr	<10/10 <5 <30 <10 <40 <40 <40 <40 <40 <40 <40 <40 <40 <40 <40 <40 nr		

1 • Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.						MEK				
		1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	
WCC-3D	07/25/89	<1	<1	49	4	<5	11	<1	<1	<1	3	-
	08/23/89	<10	<10	32	<10	<50	<10	<10	<10	<10	<10	-
	11/14/91	20	-	60	-	-	-	-	-	-	-	-
	06/16/92	510	<5	880	23	<10	<5	<5	<5	<5	<10	<5
	09/22/92	21	<1	27	2	<5	<1	<1	<1	<1	<1	<5
	12/07/92	120	<1	130	5	<5	<1	<1	1	<1	3	<5
	*03/16/93	950/1,000	6/6	2,000/2,000	50/47	<5/<5	2/2	9/9	<2/<2	6/6	<10/<10	<40
	06/08/93	110	<2	110	6	<20	<2	<2	<2	<2	<2	<40
	08/24/93	120	<2	100	5	<20	<2	<2	<2	<2	<3	<40
	*11/18/93	610/840	<2/<4	410/640	17/23	<20/<40	<2/4	4/4	<2/<4	6/8	<40/<80	<80/<80
	2/23/94	370/420	<4/<4	530/590	23/25	<40/<40	<4/<4	<4/<4	<4/<4	12/13	<80/<80	<80/<80
	6/3/94	720	<10	1,300	96	<100	<10	<10	<10	<10	<200	<200
	9/9/94	3,700	<50	5,600	490	<500	<50	<50	<50	<50	<1,000	<1,000
	12/21/94	5,200	10	6,300	540	<40	15	22	<4	8,6	5,100	<80
	*31/4/95	3,300/3,200	<40/<20	4,000/3,900	370/380	<400/<200	<40/<20	<40/<20	<40/<20	3,200/3,400	<800/<100	<200
	6/3/95	1,800	<10	2,100	200	<100	<10	<10	<10	1,700	<200	<200
	9/7/95	3,400	13	4,100	520	170	60	30	<5	13	<10	<10
	12/16/95	111	<2	90	32	nr	3	<2	<2	88	nr	nr

Notes:

ug/l = micrograms per liter

1,1-DCE = Dichloroethene

1,1-DCA = Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

MIBK = Methyl Isobutyl ketone

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene

MEK = Methyl ethyl ketone

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
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FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

WELL I.D.	SAMPLE DATE	Acetone	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.					Carbon Disulfide	Ethyl-Benzene	1,2-DCA
			Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA			
WCC-2S	11/02/87	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-
	06/16/92	<10	<1/1<1	-	-	-	-	-	<1/<1	<1/<1
	*09/22/92	<5/<5	<1/1<1	11/9	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*12/08/92	6/-5	<1/1<1	5/2	<1/1<1	<1/1<1	<1/1<1	<1/1<1	<1/<1	<1/<1
	*03/17/93	<10/<10	<2/<2	<10/<10	<5/<5	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	06/07/93	<40	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<4	<2	<4	<2	<2	<2	<2
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2
WCC-3S	11/02/87	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-
	06/17/92	<30,000	<500	<500	900	<500	<500	<500	<500	<500
	09/23/92	<3,000	<500	<500	<500	<500	<500	<500	<500	<500
	12/09/92	<3,000	<500	120/110	<25/<25	<25/<25	55/60	<10/<10	<25/<25	<10/<10
	*03/18/93	<50/<50	<100	<100	<100	<100	<100	<100	<100	<100
	06/08/93	<2,000	<400/154	<400/154	<800/<50	<400/<10	<800/52	<400/<10	<400/121	<400/121
	*08/25/93	<8,000/<200	<200	<200	<1,000	<200	<200	<200	<200	<200
	11/19/93	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200
	2/24/94	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200
	6/13/94	<400	<600	<200	<2500/<2500	<500/<500	<1000/<1000	<500/<500	<500/<500	<500/<500
	*9/9/94	<10000/<1000	<1500/1500	<500/<500	<200	<1,000	<200	<200	<200	<200
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200
	3/14/95	<4,000	<400	<400	<400	<400	<800	<400	<400	<400
	6/13/95	<8,000	39	137	<5	23	64	<5	18	99
	9/7/95	<2	42	<2	<2	<2	22	<2	8	41

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FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8260 - All results in ug/l											
WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetrachloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethy-Benzene	1,2-DCA
WCC-4S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	<10	20	<10	<10	<10	<10	<10	<10
	06/17/92	<150	<50	<10	50	<10	<10	<10	<10	<10	<10
	09/23/92	<50	<50	<10	<5	<5	<2	<2	<2	<2	<2
	12/08/92	<50	<10	<2	<10	<10	<20	<10	<10	<10	<10
	03/17/93	<10	<200	<10	<10	<40	<20	<10	<10	<10	<10
	06/08/93	<200	<200	<10	<10	<20	<20	<10	<10	<10	<10
	08/25/93	<200	<80	<4	<20	<4	<8	<4	<4	<4	<4
	11/19/93	<80	<80	<4	<4	<20	<4	<8	<4	<4	<4
	2/24/94	<80	<80	<12	<4	<20	<4	<8	<4	<4	<4
	6/13/94	<400	<400	<60	<20	<100	<20	<40	<20	<20	<20
	9/9/94	<200	<200	<20	<10	<50	<20	<10	<10	<10	<10
	12/22/94	<80	<80	<8	<4	<20	<4	<8	<4	<4	<4
	3/14/95	<130	<130	<6.6	<6.6	<33	<6.6	<13	<6.6	<6.6	<6.6
	6/13/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/7/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	12/15/95										
WCC-5S	11/30/87	-	-	-	-	-	-	-	-	-	-
	01/08/88	-	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/15/92	<10	-	<1	<1	3	3	<1	<1	<1	<1
	09/21/92	<5	-	<5	<5	<5	<2	<2	<2	<2	<2
	12/07/92	<5	-	<2	<2	<4	<4	<2	<2	<2	<2
	03/16/93	<10	<40	<2	<2	<4	<2	<2	<2	<2	<2
	06/07/93	<40	<40	<2	<2	<4	<2	<2	<2	<2	<2
	08/24/93	<40	<40	<2	<2	<10	<2	<4	<2	<2	<2
	11/18/93	<40	<40	<2	<2	<10	<2	<4	<2	<2	<2
	2/23/94	<40	<40	<2	<2	<10	<2	<4	<2	<2	<2
	*6/10/94	<40	<40	<6	<6	<2	<2	<2	<2	<2	<2
	9/8/94	<40	<40	<4	<2	<10	<2	<4	<2	<2	<2
	12/21/94	<40	<40	<4	<2	<10	<2	<4	<2	<2	<2
	3/13/95	<40	<40	<4	<2	<10	<2	<4	<2	<2	<2
	6/12/95	<10	<5	<5	<5	<5	<5	<5	<2	<2	<2
	9/6/95	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	12/12/95										

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WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l					Ethy-Benzene	1,2-DCA
					Methylene Chloride	Carbon Tetrachloride	1,1,2-TCA	PCE	Carbon Disulfide		
WCC-12S	11/18/91	-	-	-	-	-	-	-	-	-	-
	*06/16/92	<10/<10	<5	<1	4	7	<1	<1	<1	<1	<1
	09/22/92	<30	<5	<5	<5	20	<5	<5	<5	<5	<5
	12/08/92	<10	<2	<5	<2	<10	<5	<2	<5	<2	<2
	03/17/93	<40	<2	<2	<4	<4	<2	<4	<2	<2	<2
	06/07/93	<40	<4	<4	<4	<8	<4	<8	<4	<4	<4
	08/25/93	<80	<2	<2	<2	<10	<2	<4	<2	<2	<2
	11/19/93	<40	<2	<2	<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2
	2/24/94	<40/<40	<2/<2	<2	<2	<10	<2	<4	<2	<2	<2
	6/13/94	<40	<6	<2	<2	<10	<2	<2	<2	<2	<2
	9/9/94	<40	<6	<2	<2	<10	<2	<4	<2	<2	<2
	12/22/94	<40	<4	<2	<2	<10	<2	<4	<2	<2	<2
	3/14/95	<40	<4	<2	<2	<10	<2	<4	<2	<2	<2
	6/12/95	<40	<2	<2	<2	<10	<2	<4	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<6	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
DAC-P1	10/09/89	<1,000	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	1/1	4/4	4/4	9/9	13/13	<1/<1	<1/<1
	*06/23/92	<5/<5	<1/<1	<500	<500	2,000	<500	<500	<500	<500	<500
	12/09/92	<3,000	<500	<2	<5	<10	<5	5	10	<5	<2
	03/18/93	<10	<2	<100	<100	<200	<100	<200	<100	<100	<100
	06/08/93	<2,000	<100	<200	<200	<400	<200	<400	<200	<200	<200
	08/25/93	<4,000	<20	<20	<100	<100	<20	<40	<20	<20	<20
	11/19/93	<400	<20	<20	<100	<100	<20	<40	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<100	<20	<40	<20	<20	<20
	6/13/94	<400	<60	<20	<100	<100	<20	<40	<20	<20	<20
	9/9/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/95	<4,000	<200	<5	<5	<1,000	<200	<400	<200	<200	<200
	9/7/95	<10	<4	<2	<2	<5	<5	17	11	<5	<2
	12/16/95	<2	-	-	-	-	-	4	11	<2	<2

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FOURTH QUARTER 1995
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TORRANCE, CA

WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.							Ethy-Benzene	Carbon Disulfide	PCE	1,1,2-TCA	Carbon Tetrachloride	Methylene Chloride	Trichloro-fluoromethane	Total Xylenes	Acetone
		WCC-1D	WCC-3D														
	07/25/89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	<50	<5	<1	4	11	<1	<1	<1	<1	<1	<1	<1	<1	<1
	11/15/91	-	-	<50	<5	<1/<1	<2	2/2	<1/<1	<1/<1	<2	<2	<2	<1/<1	<1/<1	<1	<1
	09/22/92	<50	-	<50	<10	<5	<10	<10	<5	<5	<10	<10	<10	<10	<10	<10	<10
	12/07/92	<50	-	<50	<10	<4	<10/<4	<20/<10	<10/<4	<10/<8	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4
	03/16/93	<10	-	<10	<4	<10/<4	<10/<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	06/08/93	<200	<80	<200	<40	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	08/24/93	<40	-	<40	<40	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	11/18/93	<40	-	<40	<40	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	2/23/94	<40	-	<40	<40	<2	<2	<20	<20	<2	<4	<4	<4	<4	<4	<2	<2
	6/10/94	<40	-	<40	<6	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	9/8/94	<40	-	<40	<6	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	12/22/94	<40	-	<40	<4	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<2	<2
	3/13/95	<80	-	<80	<8	<4	<4	<20	<20	<4	<8	<8	<8	<8	<8	<4	<4
	6/13/95	<40	-	<40	<2	<2	<10	<10	<2	<4	<4	<4	<4	<4	<4	<2	<2
	9/6/95	<10	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/16/95	<2	-	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	WCC-3D	07/25/89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/16/92	<90	-	<90	<1	1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	09/22/92	<5	-	<5	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	12/07/92	<5	-	<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	*03/16/93	<100	<10	<20	<2	<2	<4	<2	<4	<4	<4	<4	<4	<4	<4	<2	<2
	06/08/93	<40	-	<40	<2	<2	<4	<4	<2	<4	<4	<4	<4	<4	<4	<2	<2
	08/24/93	<40	-	<40	<2	<2	<4	<20	<20	<4	<8	<8	<8	<8	<8	<2/<4	<2/<4
	*11/18/93	<400	<80	<400	<20	<4	<4	<20	<20	<4	<8	<8	<8	<8	<8	<4	<4
	2/23/94	<80	-	<80	<20	<4	<4	<20	<20	<4	<8	<8	<8	<8	<8	<4	<4
	6/13/94	<200	-	<200	<30	<10	<10	<50	<50	<10	<20	<10	<10	<10	<10	<10	<10
	9/9/94	<1000	-	<1000	<50	<50	<50	<250	<50	<100	<50	<50	<50	<50	<50	<50	<50
	12/21/94	<80	-	<80	<8	<4	<4	<20	<20	<4	29	29	<4	<4	<4	<4	<4
	*3/14/95	<800	<400	<800	<40	<40	<20	<200	<100	<40	<40	<40	<40	<40	<40	<40	<40
	6/13/95	<200	-	<200	<10	<10	<5	<5	<5	<10	<20	<10	<10	<10	<10	<10	<10
	9/7/95	<10	-	<10	8	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2	6	<2
	12/16/95	<2	-	<2	-	-	-	-	-	-	-	-	-	-	-	-	<2

Notes:

ug/l = micrograms per liter

PCE = Tetrachloroethene

1,1,2-TCA=1,1,2-Trichloroethane

1,2-DCA = 1,2-Dichloroethane

1 • Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

SUMMARY OF GROUNDWATER ELEVATION DATA
 FOURTH QUARTER 1995
 DOUGLAS AIRCRAFT C-6 FACILITY
 TORRANCE, CALIFORNIA
 KJ 944016.01

Observation Well	Reference Point ¹ Elevation (Feet Above MSL) ²	Water Level Elevation (Feet Above Mean Sea Level)									
		8/24/93	11/18/93	2/23/94	6/10/94	9/8/94	12/21/94	3/13/95	6/12/95	9/20/95	12/12/95
WCC-1S	50.7	-18.25	-18	-17.61	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05
WCC-2S	50.59	-18.15	-17.87	-17.49	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86
WCC-3S	51.19	-18.36	-18.01	-17.67	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06
WCC-4S	49.69	-18.37	-18.16	-17.77	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16
WCC-5S	48.22	-18.38	-18.13	-17.78	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14
WCC-6S	50.95	-18.55	-18.32	-17.92	-17.48	NM ³	-17.45	-17.36	16.75	-16.64 ⁴	-16.30
WCC-7S	48.29	-18.83	-18.6	-18.22	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59
WCC-8S	50.56	-18.19	-17.89	-17.49	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89
WCC-9S	47.01	-18.69	-18.42	-18.09	-18.63	-19.08	-19.08	-17.51	-17.41	-16.79	-16.64
WCC-10S	51.12	-17.83	-17.54	-17.07	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54
WCC-11S	49.97	-17.6	-17.36	-16.96	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35
WCC-12S	46.92	-18.78	-18.58	-18.13	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54
DAC-P1	52.44	-17.03	-16.76	-16.74	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66	-15.66
WCC-1D	50.45	-18.53	-18.34	-17.83	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31
WCC-3D	51.18	-18.4	-18.18	-18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17
MW-8 ⁵	49.09	NA ⁶	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9 ⁶	48.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18 ⁵	50.29	NA	NA	NA	NA	NA	NA	NA	-18.91	NA	NA
MW-19 ⁵	46.55	NA	NA	NA	NA	NA	NA	NA	-18.06	NA	NA

Notes:

1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Water Level Elevation not measured due to wellhead obstructions.
4. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.

5. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation

6. NA - Not Available

TABLE 4

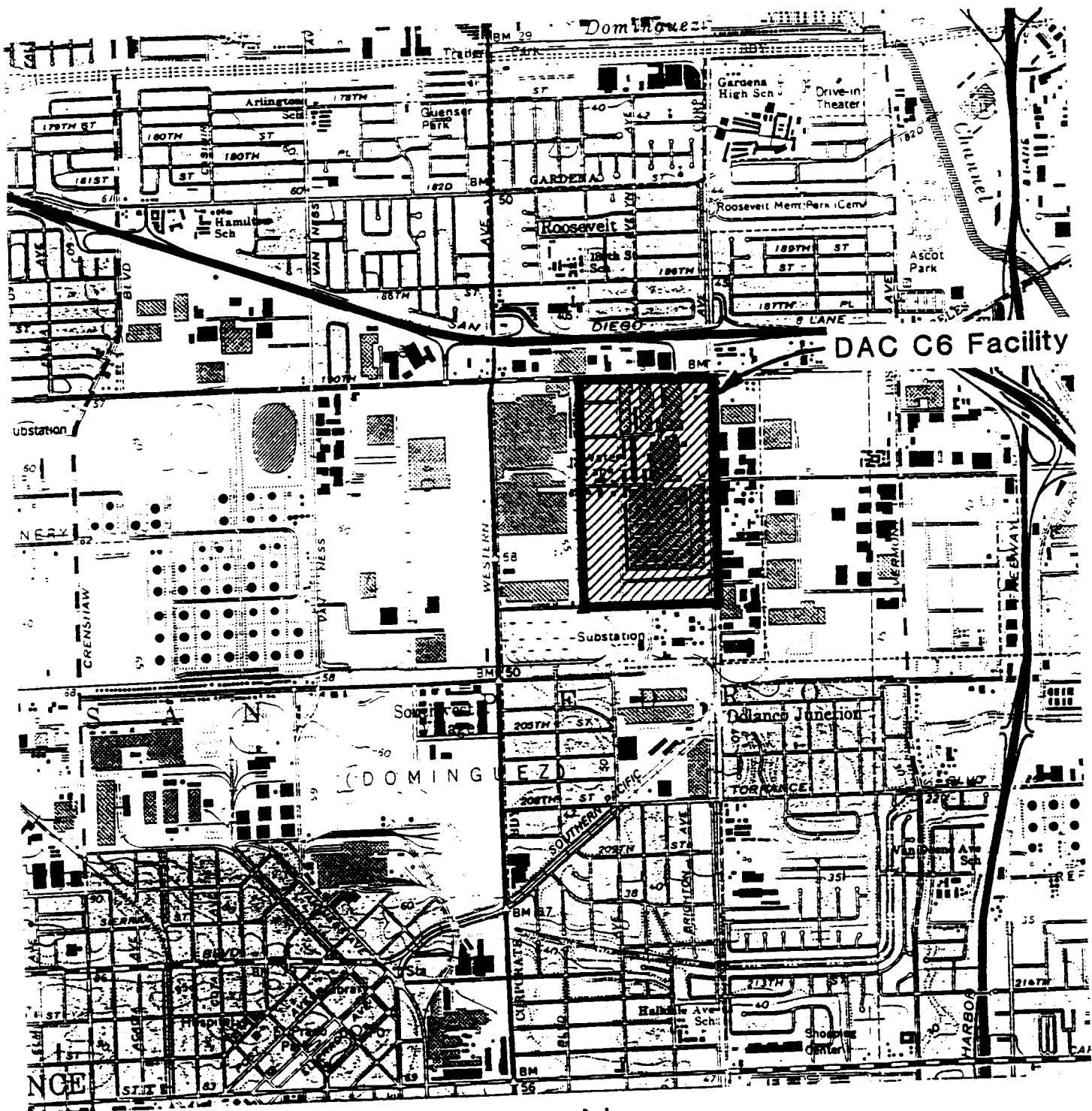
**SUMMARY OF GROUNDWATER ELEVATION DATA
FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA**

Observation Well	Reference Point ¹ Elevation (Feet Above MSL) ²	Water Level Elevation (Feet Above Mean Sea Level)					
		11/13/87 ³	10/18/89 ⁴	6/15/92	9/21/92	1/5/93	4/9/93
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73	-18.83
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34	-18.86
WCC-5S	48.22	NA ⁵	-19.7	-19.13	-19.42	-19.32	-18.83
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5	-19.03
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76	-19.3
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19	-18.69
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56	-19.09
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1	-18.42
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69	-18.13
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74	-19.26
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02	-17.46
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61	-19.1
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52	-18.87
MW-8 ⁶	49.09	NA	NA	NA	NA	NA	NA
MW-9 ⁶	48.67	NA	NA	NA	NA	NA	-20.58
MW-18 ⁶	50.29	NA	NA	NA	NA	NA	-20.88
MW-19 ⁶	46.55	NA	NA	NA	NA	NA	-20.13

Notes:

1. Reference point is north side, top of well casing.
2. Reference point elevation measured by Hargis + Associates.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data taken from Woodward-Clyde Consultants Phase III Report, May 1990.
5. NA - Not Available
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation.

FIGURES



Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Site Vicinity Map



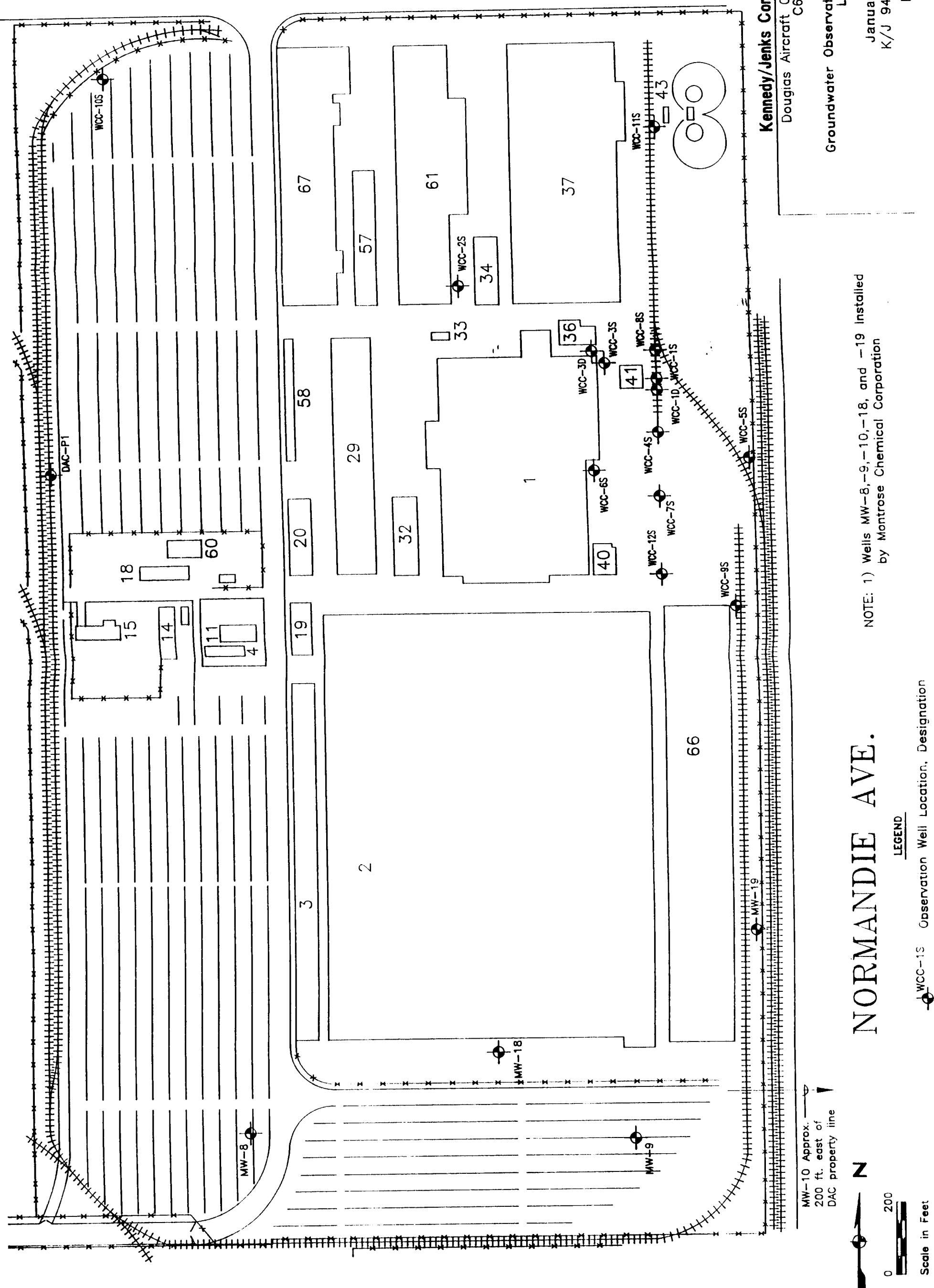
0 1,000 2,000 FEET

Base Map: U.S.G.S. 7.5 Minute Topographic Map,
Torrance, California Quadrangle, 1981.

January 1996
K/J 944016.01

Figure 1

190 TH. ST.



NOTE: 1) Wells MW-8,-9,-10,-18, and -19 installed by Montrose Chemical Corporation

NUNMANNIE AVE.

LEGEND

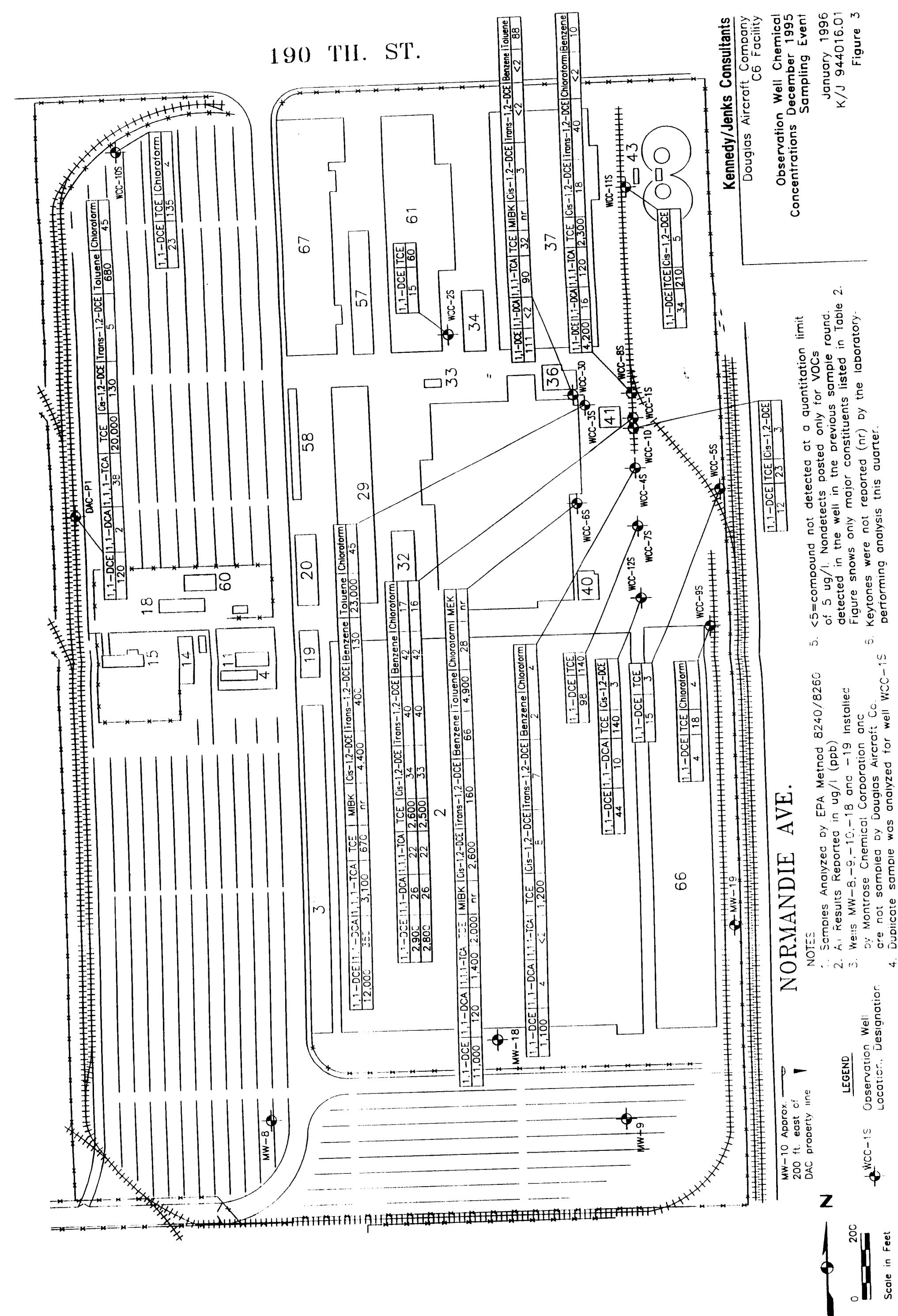
WCC-1S Conservation Well Location Designation

Scale in Feet

Figure 2

OE-C6-0017133

190 TH. ST.



Sampling Event
January 1996
K/J 944016.01
Figure 3

Observation Well Chemical Concentrations December 1995 Sampling Event

Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

<5=compound not detected at a quantitation limit of 5 ug/l. Nondetects posted only for VOCs detected in the well in the previous sample round. Figure shows only major constituents listed in Table 2. Keytones were not reported (nr) by the laboratory performing analysis this quarter.

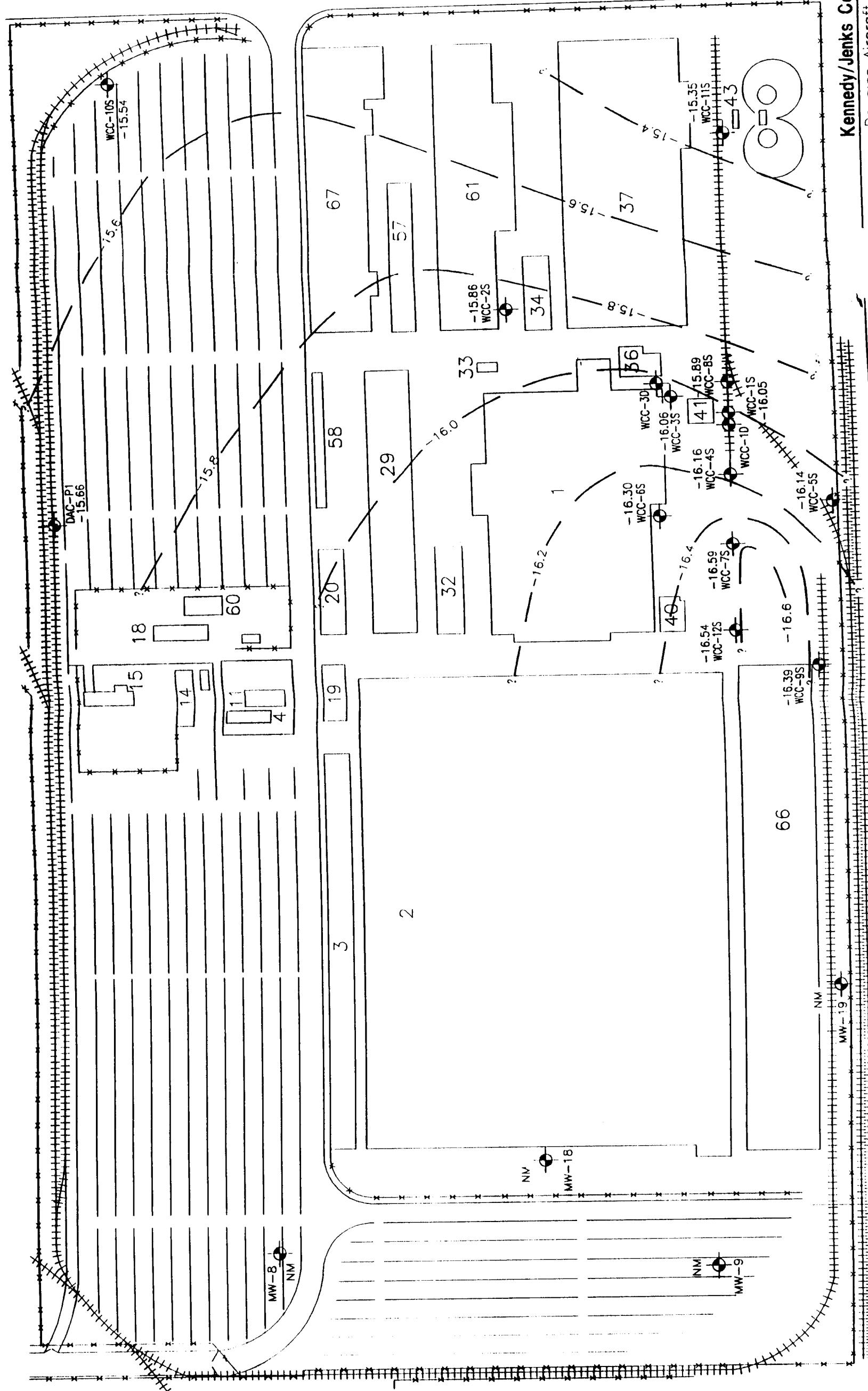
NOTE

NORMANDIE AV

AC property line

BOE-C6-0017134

190 TH. ST.



Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility

Estimated Groundwater Elevation
Contour Map, Shallow Zone December 1995

January 1996
K/J 944016.0
Figure 4

1) Wells MW-8, -9, -10, -18, and -19 installed by Montrose Chemical Corporation
2) Contour Interval = 0.2 feet
3) Wells WCC-3S and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

NOTE: 1) Wells MW-8, -9, -10, -18, and -19 installed by Montrose Chemical Corporation
2) Contour Interval = 0.2 feet
3) Wells WCC-3S and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

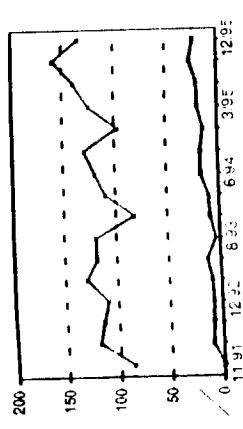
November 1991 to December 1995

PROFILES

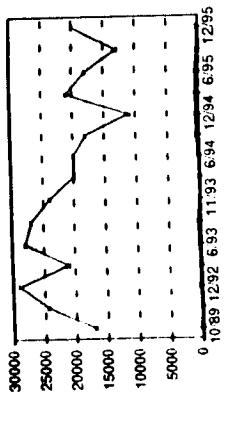
CITY MICAL CONCENTRATION

Douglas Aircraft Company
Torrances, California
Trine, California
Kennedy/Jenks Consultants
C-6 Facility

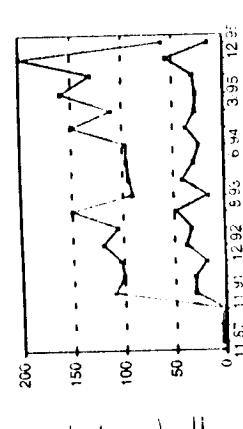
Well 10-S



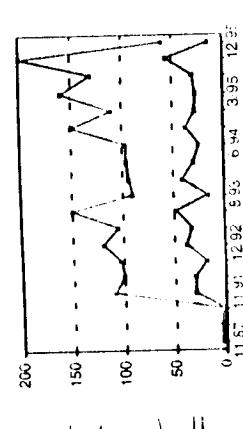
Well DAC-P1



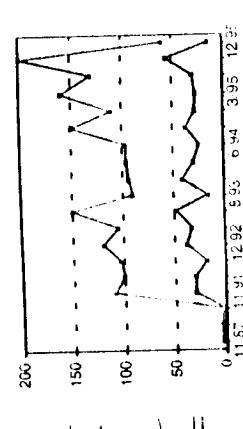
Well 2-S



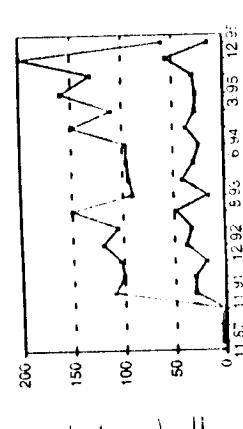
Well 3-S



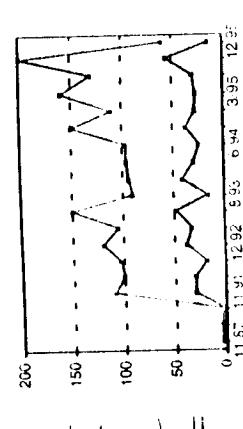
Well 4-S



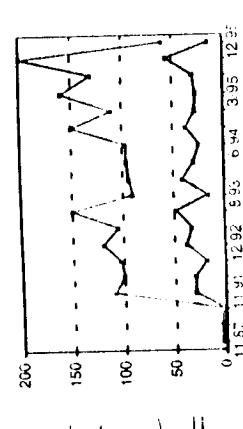
Well 6-S



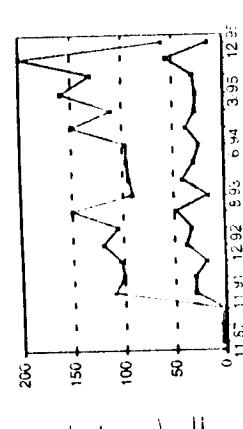
Well 7-S



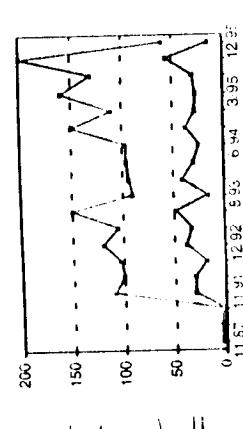
Well 8-S



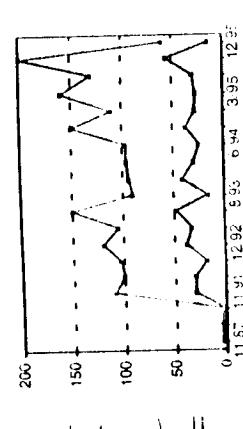
Well 9-S



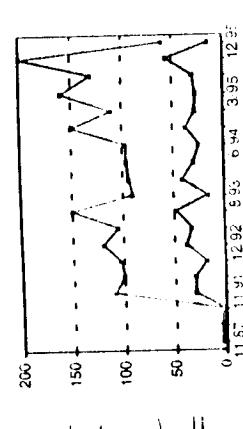
Well 10-S



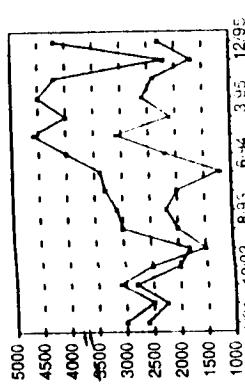
Well 11-S



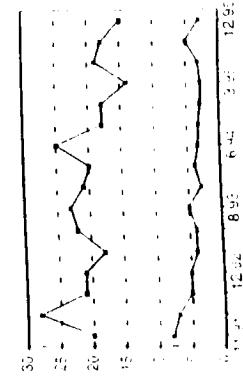
Well 12-S



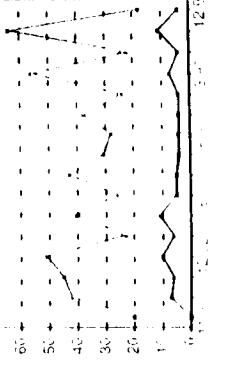
Well 12-S



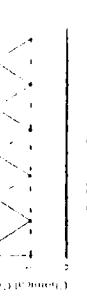
Well 5-S



Well 1-S



LEGEND
VW = C Additive
CC = C Control
DAC = Dose Control
N = No Data Are Snowed
S = Shallow Well Data Are Snowed



APPENDIX A
LABORATORY DATA SHEETS



Since 1878

Curtis & Tompkins, Ltd. General Analytical Laboratories

2495 Da Vinci, Irvine CA 92714

Phone 714-252-9700

Fax 714-252-9701

LABORATORY REPORT

Laboratory Number: 213527

Page 1 of 25

Date Received: 12/16/95

Date Reported: 01/02/95

Issued To: KENNEDY/JENKS
2151 MICHELSON DR.
SUITE 100
IRVINE, CA 92715
ATTN: SARAH BARTLING

Project I.D.: 944016.01

Location: DAC

Report On: TWELVE LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By:

MICL Kite

Jan Marion

Berkeley

Irvine



Since 1878

Curtis & Tompkins, Ltd. General Analytical Laboratories

2495 Da Vinci, Irvine CA 92714

Phone 714-252-9700

Fax 714-252-9701

LABORATORY REPORT

Laboratory Number: 213525

Page 1 of 19

Date Received: 12/18/95

Date Reported: 01/02/96

Issued To: KENNEDY/JENKS
2151 MICHELSON DR.
SUITE 100
IRVINE, CA 92715
ATTN: SARAH BARTLING

Project I.D.: 944016.01

Location: DAC

Report On: NINE LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By:

Mil L

Jan Mains

Berkeley

Irvine



ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

ND - Not Detected at or above the defined detection limit.

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

Title 26 - Title 26 of the California Code of Regulations (CCR).

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

cm³ - Cubic centimeter

1umhos/cm - uS/cm - Micro Siemens/centimeter

Kg - kilogram.

ppb - Parts per billion.

L - Liter.

ppm - Parts per million.

mg - Milligrams.

ug - Micrograms.

M³ - Cubic meter.

ppbv - Parts per billion per unit volume

VOLATILE ORGANICS



Client I.D.: WCC1S-13
 Laboratory I.D.: 213527-007
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 14 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	42	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	a - Result reported from a 1:100 dilution.
Bromochloromethane	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	17	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
4-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	26	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	2,900	200	a	ND	2	
cis-1,2-Dichloroethene	34	2		ND	2	
trans-1,2-Dichloroethene	40	2		ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
cis-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
Hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

(continued on next page)

VOLATILE ORGANICS



Client I.D.: WCC1S-13
 Laboratory I.D.: 213527-007
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 15 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethylene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	22	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethylene	2.600	200	a	ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
<i>m</i> -Xylene	ND	2		ND	2	
<i>n,p</i> -Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data										
Compound	Percent Recovery	QC Limits	Compounds	Batch: 12-439			Sample I.D.: BS/BSD			RPD	QC Limits		
				Spike Amt.	LCS % Rec.	QC Limits	Spike % Rec.	Spk Dup % Rec.	QC Limits				
Toluene-d8	105	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25		
,4-Bromofluorobenzene	104	86-115	Benzene	50	110	72-127	99	98	72-127	1	25		
,1Bromofluoromethane	108	86-118	Trichloroethylene	50	104	60-137	96	99	60-137	3	25		
			Toluene	50	110	75-124	98	100	75-124	2	25		
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25		

VOLATILE ORGANICS



Client I.D.: WCC2S-13
 Laboratory I.D.: 213527-002
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 4 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
I Bromobenzene	ND	2		ND	2	
I Bromochloromethane	ND	2		ND	2	
Bromoac dichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
I Bromomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
,2-Dibromoethane	ND	2		ND	2	
I bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
Jichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	15	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
,1-Dichloropropene	ND	2		ND	2	
is-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
Iexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
ethylene chloride	ND	2		ND	2	
laphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC2S-13
 Laboratory I.D.: 213527-002
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 5 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	59	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
m,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	106	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
1,4-Bromofluorobenzene	102	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Dibromofluoromethane	98	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC3S-13
 Laboratory I.D.: 213525-005
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 10 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	130	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	a - Result reported from a 1:100 dilution.
Bromochloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	45	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
4-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	350	200	a	ND	2	
1,2-Dichloroethane	41	2		ND	2	
1,1-Dichloroethene	12,000	200	a	ND	2	
cis-1,2-Dichloroethene	4,400	2		ND	2	
trans-1,2-Dichloroethene	400	200	a	ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
cis-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	8	2		ND	2	
Hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/16/95 N/A
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC3S-13
 Laboratory I.D.: 213525-005
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 11 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	~23,000	200	a,b	ND	2	a - Result reported from a 1:100 dilution.
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	b - Value is an estimate due to over linear range.
1,1,1-Trichloroethane	3,100	2		ND	2	
1,1,2-Trichloroethane	22	2		ND	2	
Trichloroethene	670	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	3	2		ND	2	
α -Xylene	ND	2		ND	2	
n,p-Xylene	42	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
1,2-Dichloroethane-d4	110	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	102	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Bromofluorobenzene	102	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC4S-13

Matrix: Liquid

Laboratory I.D.: 213527-005

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

Page

10 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	2	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	a - Result reported from a 1:100 dilution.
Bromodichloromethane	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	4	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
4-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	4	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	1.100	200	a	ND	2	
cis-1,2-Dichloroethene	8	2		ND	2	
trans-1,2-Dichloroethene	7	2		ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
cis-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
Hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	

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	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

VOLATILE ORGANICS



Client I.D.: WCC4S-13
 Laboratory I.D.: 213527-005
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 11 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
1,1,1,2-Tetrachloroethane	ND	2		ND	2		
1,1,2,2-Tetrachloroethane	ND	2		ND	2		
Tetrachloroethylene	ND	2		ND	2	a - Result reported from a 1:100 dilution.	
Toluene	ND	2		ND	2		
1,2,3-Trichlorobenzene	ND	2		ND	2		
1,2,4-Trichlorobenzene	ND	2		ND	2		
1,1,1-Trichloroethane	ND	2		ND	2		
1,1,2-Trichloroethane	ND	2		ND	2		
Trichloroethylene	1,200	200	a	ND	2		
Trichlorofluoromethane	ND	2		ND	2		
1,2,3-Trichloropropane	ND	2		ND	2		
1,2,4-Trimethylbenzene	ND	2		ND	2		
1,3,5-Trimethylbenzene	ND	2		ND	2		
Vinyl Chloride	ND	2		ND	2		
o-Xylene	ND	2		ND	2		
m,p-Xylene	ND	2		ND	2		

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC	Limits
Toluene-d8	108	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
1,4-Bromofluorobenzene	101	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Dibromofluoromethane	104	86-118	Trichloroethylene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC5S-13
 Laboratory I.D.: 213527-010
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 20 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromo dichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
fert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	15	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
,1-Dichloropropene	ND	2		ND	2	
is-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
1-methylene chloride	ND	2		ND	2	
aphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC5S-13
 Laboratory I.D.: 213527-010
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 21 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	3	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
m,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	106	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
1,4-Bromofluorobenzene	98	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
Dibromofluoromethane	95	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	

VOLATILE ORGANICS

Client I.D.: WCC6S-13
 Laboratory I.D.: 213525-004
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 8 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	66	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	a - Result reported from a 1:100 dilution.
bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
romomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
arbon disulfide	ND	2		ND	2	
arbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
chloroethane	ND	2		ND	2	
hloroform	28	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
2-Dibromoethane	ND	2		ND	2	
bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
4-Dichlorobenzene	ND	2		ND	2	
chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	120	2		ND	2	
2-Dichloroethane	41	2		ND	2	
1-Dichloroethene	11,000	200	a	ND	2	
cis-1,2-Dichloroethene	2,600	200	a	ND	2	
trans-1,2-Dichloroethene	160	2		ND	2	
2-Dichloropropane	ND	2		ND	2	
3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
s-1,3-Dichloropropene	ND	2		ND	2	
uans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	5	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
opropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
aphthalene	ND	2		ND	2	Date Sampled: 12/16/95 N/A
Propylbenzene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95

(continued on next page)

VOLATILE ORGANICS



Client I.D.: WCC6S-13
 Laboratory I.D.: 213525-004
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 9 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
,1,1,2-Tetrachloroethane	ND	2		ND	2	
,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	4,900	200	a	ND	2	
,2,3-Trichlorobenzene	ND	2		ND	2	
,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	1,400	200	a	ND	2	
1,1,2-Trichloroethane	76	2		ND	2	
Trichloroethene	2,000	200	a	ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
,2,4-Trimethylbenzene	ND	2		ND	2	
,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
<i>o</i> -Xylene	4	2		ND	2	
<i>t,p</i> -Xylene	24	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits		Batch: 12-439		Sample I.D.: BS/BSD							
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
1,2-Dichloroethane-d4	108	88-110		1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	101	86-115		Benzene	50	108	72-127	102	97	72-127	5	25	
Chlorofluorobenzene	104	86-118		Trichloroethene	50	106	60-137	104	117	60-137	12	25	
				Toluene	50	112	75-124	104	100	75-124	4	25	
				Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC7S-13

Laboratory I.D.: 213527-003

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page

6 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
o-Bromobenzene	ND	2		ND	2	
m-Bromochloromethane	ND	2		ND	2	
p-Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
1-Chlorobenzene	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	ND	2		ND	2	
1,1-Dichloropropane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
1,2-Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
1,1-Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	98	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1,2-Dichloropropene	ND	2		ND	2	
1,3-Dichloropropene	ND	2		ND	2	
2,2-Dichloropropene	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
1,1,1-Trichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
trans-1,2-Dichlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-Isopropyltoluene	ND	2		ND	2	
1-Ethylene chloride	ND	2		ND	2	
laphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC7S-13
 Laboratory I.D.: 213527-003
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 7 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method	Detection Limit	Analytical Notes	
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
1,1,1,2-Tetrachloroethane	ND	2		ND	2		
1,1,2,2-Tetrachloroethane	ND	2		ND	2		
Tetrachloroethene	ND	2		ND	2		
Toluene	ND	2		ND	2		
1,2,3-Trichlorobenzene	ND	2		ND	2		
1,2,4-Trichlorobenzene	ND	2		ND	2		
1,1,1-Trichloroethane	ND	2		ND	2		
1,1,2-Trichloroethane	ND	2		ND	2		
Trichloroethene	140	2		ND	2		
Trichlorofluoromethane	ND	2		ND	2		
1,2,3-Trichloropropane	ND	2		ND	2		
1,2,4-Trimethylbenzene	ND	2		ND	2		
1,3,5-Trimethylbenzene	ND	2		ND	2		
Vinyl Chloride	ND	2		ND	2		
o-Xylene	ND	2		ND	2		
n,p-Xylene	ND	2		ND	2		

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	106	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
1,4-Bromofluorobenzene	100	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Dibromofluoromethane	100	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC8S-13
 Laboratory I.D.: 213527-006
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 12 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	10	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Tromobenzene	ND	2		ND	2	a - Result reported from a 1:100 dilution.
tromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
romomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
arbon disulfide	ND	2		ND	2	
arbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
hloroethane	ND	2		ND	2	
hloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
2-Dibromoethane	ND	2		ND	2	
bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
4-Dichlorobenzene	ND	2		ND	2	
chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	16	2		ND	2	
2-Dichloroethane	ND	2		ND	2	
1-Dichloroethene	4.200	200	a	ND	2	
cis-1,2-Dichloroethene	18	2		ND	2	
trans-1,2-Dichloroethene	39	2		ND	2	
2-Dichloropropane	ND	2		ND	2	
3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1-Dichloropropene	ND	2		ND	2	
s-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
opropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
ethylene chloride	ND	2		ND	2	
aphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

(continued on next page)

VOLATILE ORGANICS



Client I.D.: WCC8S-13
 Laboratory I.D.: 213527-006
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 13 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	a - Result reported form a 1:100 dilution.
Toluene	ND	2		ND	2	
,2,3-Trichlorobenzene	ND	2		ND	2	
,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	120	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	2,300	200	a	ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
,2,4-Trimethylbenzene	ND	2		ND	2	
,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
n,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt. (ug/L)	LCS	QC Limits	Spike %Rec.	Spk Dup	QC	RPD	QC	
Toluene-d8	106	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
1,4-Bromofluorobenzene	104	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
Dibromofluoromethane	109	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	

VOLATILE ORGANICS



Client I.D.: WCC9S-13
 Laboratory I.D.: 213527-011
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 22 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	4	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
,2-Dibromoethane	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
1-Chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	4	2		ND	2	
cis-1,2-Dichloroethene	3	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropene	ND	2		ND	2	Sample Method Blank
,3-Dichloropropene	ND	2		ND	2	
2,2-Dichloropropene	ND	2		ND	2	
,1-Dichloropropene	ND	2		ND	2	
is-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	Date Sampled: 12/15/95 N/A
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC9S-13
 Laboratory I.D.: 213527-011
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 23 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
,2,3-Trichlorobenzene	ND	2		ND	2	
,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	18	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
,2,4-Trimethylbenzene	ND	2		ND	2	
,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
1,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	107	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
,4-Bromofluorobenzene	100	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
,Bromofluoromethane	98	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	

VOLATILE ORGANICS



Client I.D.: WCC10S-13
 Laboratory I.D.: 213525-002
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 4 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	4	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
4-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	23	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
cis-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
Hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
				Sample	Method Blank	
				Date Sampled:	12/16/95	N/A
				Date Analyzed:	12/27/95	12/27/95

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VOLATILE ORGANICS



Client I.D.: WCC10S-13
 Laboratory I.D.: 213525-002
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 5 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	135	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
,2,4-Trimethylbenzene	ND	2		ND	2	
,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
n,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
1,2-Dichloroethane-d4	110	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	104	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Trifluorobenzene	105	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	



VOLATILE ORGANICS

Client I.D.: WCC11S-13
 Laboratory I.D.: 213527-004
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 8 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
,2-Dibromoethane	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
Chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
1-Dichloroethene	34	2		ND	2	
cis-1,2-Dichloroethene	5	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
,1-Dichloropropene	ND	2		ND	2	
is-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	Sample Method Blank
hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
ethylene chloride	ND	2		ND	2	
laphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	Date Sampled: 12/15/95 N/A
						Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS

Client I.D.: WCC11S-13
 Laboratory I.D.: 213527-004
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 9 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethylene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethylene	210	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
n,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	110	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
1,4-Bromofluorobenzene	103	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Dibromofluoromethane	102	86-118	Trichloroethylene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS

lient I.D.: WCC12S-13
Laboratory I.D.: 213527-001
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Page
2 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
o-nitrobenzene	ND	2		ND	2	
o-chloromethane	ND	2		ND	2	
o-dichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
o-bromomethane	ND	2		ND	2	
Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
arbon disulfide	ND	2		ND	2	
arbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
lchloroethane	ND	2		ND	2	
lchloroform	2	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
Chlorotoluene	ND	2		ND	2	
o-bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
o-Dibromoethane	ND	2		ND	2	
romomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
cis-1,2-Dichloroethene	3	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1-Dichloroethane	10	2		ND	2	
2-Dichloroethane	ND	2		ND	2	
-Dichloroethene	44	2		ND	2	
cis-1,2-Dichloroethene	3	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1-Dichloropropane	ND	2		ND	2	
2-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropene	ND	2		ND	2	
1,1,2,3-Tetrachloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
o-chlorobutadiene	ND	2		ND	2	
o-propylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
ethylene chloride	ND	2		ND	2	Sample Method Blank
phthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	

(continued on next page)

Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

VOLATILE ORGANICS



Client I.D.: WCC12S-13
 Laboratory I.D.: 213527-001
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 3 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,2-Tetrachloroethane	ND	2		ND	2	
1,2,2-Tetrachloroethane	ND	2		ND	2	
1,1,1-Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
2,3-Trichlorobenzene	ND	2		ND	2	
2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	140	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
2,4-Trimethylbenzene	ND	2		ND	2	
3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
m-Xylene	ND	2		ND	2	
,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	107	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
,4-Bromofluorobenzene	100	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
ibromofluoromethane	101	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: DAC-P1

Laboratory I.D.: 213525-006

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page

12 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Benzene	5	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
Bromobenzene	ND	2		ND	2		
Bromoform	ND	2		ND	2		
Bromochloromethane	ND	2		ND	2		
Bromoform	ND	2		ND	2		
Bromomethane	ND	2		ND	2		
n-Butylbenzene	ND	2		ND	2		
sec-Butylbenzene	ND	2		ND	2		
tert-Butylbenzene	ND	2		ND	2		
Carbon disulfide	ND	2		ND	2		
Carbon tetrachloride	ND	2		ND	2		
Chlorobenzene	ND	2		ND	2		
Chloroethane	ND	2		ND	2		
Chloroform	45	2		ND	2		
Chloromethane	ND	2		ND	2		
2-Chlorotoluene	ND	2		ND	2		
4-Chlorotoluene	ND	2		ND	2		
Dibromochloromethane	ND	2		ND	2		
1,2-Dibromo-3-chloropropane	ND	2		ND	2		
1,2-Dibromoethane	ND	2		ND	2		
Dibromomethane	ND	2		ND	2		
1,2-Dichlorobenzene	ND	2		ND	2		
1,3-Dichlorobenzene	ND	2		ND	2		
1,4-Dichlorobenzene	ND	2		ND	2		
Dichlorodifluoromethane	ND	2		ND	2		
1,1-Dichloroethane	2	2		ND	2		
1,2-Dichloroethane	ND	2		ND	2		
1,1-Dichloroethene	120	2		ND	2		
cis-1,2-Dichloroethene	130	2		ND	2		
trans-1,2-Dichloroethene	5	2		ND	2		
1,2-Dichloropropane	ND	2		ND	2		
1,3-Dichloropropane	ND	2		ND	2		
2,2-Dichloropropane	ND	2		ND	2		
1,1-Dichloropropene	ND	2		ND	2		
cis-1,3-Dichloropropene	ND	2		ND	2		
trans-1,3-Dichloropropene	ND	2		ND	2		
Ethylbenzene	ND	2		ND	2		
Hexachlorobutadiene	ND	2		ND	2		
Isopropylbenzene	ND	2		ND	2		
p-isopropyltoluene	ND	2		ND	2		
Methylene chloride	ND	2		ND	2		
Naphthalene	ND	2		ND	2		
n-Propylbenzene	ND	2		ND	2		
						Sample	Method Blank
						Date Sampled:	12/16/95 N/A
						Date Analyzed:	12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: DAC-P1

Laboratory I.D.: 213525-006

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page

13 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	a - Result reported from a 1:100 dilution.	
1,1,2,2-Tetrachloroethane	ND	2		ND	2		
Tetrachloroethene	11	2		ND	2		
Toluene	680	200	a	ND	2		
1,2,3-Trichlorobenzene	ND	2		ND	2		
1,2,4-Trichlorobenzene	ND	2		ND	2		
1,1,1-Trichloroethane	38	2		ND	2		
1,1,2-Trichloroethane	4	2		ND	2		
Trichloroethene	20,000	200	a	ND	2		
Trichlorofluoromethane	ND	2		ND	2		
1,2,3-Trichloropropane	ND	2		ND	2		
1,2,4-Trimethylbenzene	ND	2		ND	2		
1,3,5-Trimethylbenzene	ND	2		ND	2		
Vinyl Chloride	ND	2		ND	2		
o-Xylene	ND	2		ND	2		
m,p-Xylene	ND	2		ND	2		

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
1,2-Dichloroethane-d4	97	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	106	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Bromofluorobenzene	96	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC1D-13
 Laboratory I.D.: 213525-001
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 2 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
1-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	12	2		ND	2	
cis-1,2-Dichloroethene	3	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
,1-Dichloropropene	ND	2		ND	2	
:s-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
hexachlorobutadiene	ND	2		ND	2	
sopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/16/95 N/A
						Date Analyzed: 12/27/95 12/27/95

(continued on next page)

VOLATILE ORGANICS



Client I.D.: WCC1D-13
 Laboratory I.D.: 213525-001
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 3 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
1,1,2-Tetrachloroethane	ND	2		ND	2		
1,2,2-Tetrachloroethane	ND	2		ND	2		
Tetrachloroethene	ND	2		ND	2		
Toluene	ND	2		ND	2		
2,3-Trichlorobenzene	ND	2		ND	2		
2,4-Trichlorobenzene	ND	2		ND	2		
1,1,1-Trichloroethane	ND	2		ND	2		
1,1,2-Trichloroethane	ND	2		ND	2		
1-Chloroethene	23	2		ND	2		
1-Chlorofluoromethane	ND	2		ND	2		
1,2,3-Trichloropropane	ND	2		ND	2		
1,4-Trimethylbenzene	ND	2		ND	2		
1,5-Trimethylbenzene	ND	2		ND	2		
Vinyl Chloride	ND	2		ND	2		
~ Xylene	ND	2		ND	2		
p-Xylene	ND	2		ND	2		

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt. (ug/L)	LCS	QC Limits	Spike %Rec.	Spk Dup	QC	RPD	QC	QC Limits
Toluene-d8	109	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
-Bromofluorobenzene	102	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
-Xromofluoromethane	103	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: WCC3D-13
 Laboratory I.D.: 213525-003
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 6 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
chloroethane	ND	2		ND	2	
chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
2-Dibromoethane	ND	2		ND	2	
bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
1-Chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	111	2		ND	2	
cis-1,2-Dichloroethene	3	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
s-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	Sample Method Blank
exachlorobutadiene	ND	2		ND	2	
propylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
ethylene chloride	ND	2		ND	2	Date Sampled: 12/16/95 N/A
aphthalene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95
n-Propylbenzene	ND	2		ND	2	

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VOLATILE ORGANICS

Client I.D.: WCC3D-13

Laboratory I.D.: 213525-003

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page

7 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	88	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	90	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	32	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
1,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439	Sample I.D.: BS/BSD		RPD	QC Limits						
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits			
					(ug/L)								
1,2-Dichloroethane-d4	110	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25		
Toluene-d8	101	86-115	Benzene	50	108	72-127	102	97	72-127	5	25		
Chlorotluorobenzene	104	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25		
			Toluene	50	112	75-124	104	100	75-124	4	25		
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25		

APPENDIX B

**LABORATORY/FIELD QUALITY CONTROL
DATA SHEETS**

VOLATILE ORGANICS

Client I.D.: DW-121595
 Laboratory I.D.: 213527-012
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 24 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	42	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	a - Result reported from a 1:100 dilution.
bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
bromomethane	ND	2		ND	2	
-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	16	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
2-Dibromoethane	ND	2		ND	2	
bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
4-Dichlorobenzene	ND	2		ND	2	
chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	26	2		ND	2	
2-Dichloroethane	ND	2		ND	2	
1-Dichloroethene	2,800	200	a	ND	2	
cis-1,2-Dichloroethene	33	2		ND	2	
trans-1,2-Dichloroethene	40	2		ND	2	
2-Dichloropropane	ND	2		ND	2	
3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1-Dichloropropene	ND	2		ND	2	
s-1,3-Dichloropropene	ND	2		ND	2	
uans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
propylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
aphthalene	ND	2		ND	2	Date Sampled: 12/15/95 N/A
n-Propylbenzene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: DW-121595
 Laboratory I.D.: 213527-012
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 25 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
1,1,2-Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	22	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	2,500	200	a	ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
2,4-Trimethylbenzene	ND	2		ND	2	
3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Compounds	Batch: 12-439		Sample I.D.: BS/BSD						
				Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	105	86-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
4-Bromofluorobenzene	102	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
bromofluoromethane	100	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	

VOLATILE ORGANICS



Client I.D.: EB-121595

Matrix: Liquid

Laboratory I.D.: 213527-008

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

Page
16 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
4-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	2	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
cis-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	Sample Method Blank
Hexachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	Date Sampled: 12/15/95 N/A
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS

Client I.D.: EB-121595
 Laboratory I.D.: 213527-008
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 17 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethene	ND	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
2,4-Trimethylbenzene	ND	2		ND	2	
3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
α -Xylene	ND	2		ND	2	
1,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439			Sample I.D.: BS/BSD						
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene- α s	108	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
4-Bromofluorobenzene	102	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
ibromofluoromethane	99	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	

VOLATILE ORGANICS



Client I.D.: TB-121595
 Laboratory I.D.: 213527-009
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 18 of 25

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
n-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
1-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
1,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
1,1-Dichloroethene	ND	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
1,2-Dichloropropane	ND	2		ND	2	
1,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	Sample Method Blank
1,1,1-Trichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
hexachlorobutadiene	ND	2		ND	2	Date Sampled: 12/15/95 N/A
Isopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95
n-Propylbenzene	ND	2		ND	2	

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VOLATILE ORGANICS

Client I.D.: TB-121595

Laboratory I.D.: 213527-009

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page

19 of 25

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
,1,2-Tetrachloroethane	ND	2		ND	2	
,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
,3-Trichlorobenzene	ND	2		ND	2	
,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Chloroethene	ND	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,4-Trimethylbenzene	ND	2		ND	2	
1,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
XYLene	ND	2		ND	2	
m-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Compounds	Batch: 12-439		Sample I.D.: BS/BSD						
				Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	108	88-110	1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25	
-Bromofluorobenzene	102	86-115	Benzene	50	110	72-127	99	98	72-127	1	25	
-Bromoform	104	86-118	Trichloroethene	50	104	60-137	96	99	60-137	3	25	
			Toluene	50	110	75-124	98	100	75-124	2	25	
			Chlorobenzene	50	102	72-131	98	96	72-131	2	25	



ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

ND - Not Detected at or above the defined detection limit.

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

Title 26 - Title 26 of the California Code of Regulations (CCR).

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

cm³ - Cubic centimeter

1umhos/cm - uS/cm - Micro Siemens/centimeter

Kg - kilogram.

ppb - Parts per billion.

L - Liter.

ppm - Parts per million.

mg - Milligrams.

ug - Micrograms.

M3 - Cubic meter.

ppbv - Parts per billion per unit volume

VOLATILE ORGANICS



Client I.D.: RB-121695

Laboratory I.D.: 213525-007

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page
14 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
-Chlorotoluene	ND	2		ND	2	
1Bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
1,2-Dibromoethane	ND	2		ND	2	
1Bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
1Chloro1fluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
1,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	ND	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	Sample Method Blank
1,1-Dichloropropene	ND	2		ND	2	
is-1,3-Dichloropropene	ND	2		ND	2	
ans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
Isopropylbenzene	ND	2		ND	2	Date Sampled: 12/16/95 N/A
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Aphthalene	ND	2		ND	2	
Propylbenzene	ND	2		ND	2	Date Analyzed: 12/27/95 12/27/95

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VOLATILE ORGANICS



Client I.D.: RB-121695
 Laboratory I.D.: 213525-007
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 15 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.	
1,1,1,2-Tetrachloroethane	ND	2		ND	2		
1,1,2,2-Tetrachloroethane	ND	2		ND	2		
Tetrachloroethene	ND	2		ND	2		
Toluene	ND	2		ND	2		
1,2,3-Trichlorobenzene	ND	2		ND	2		
1,2,4-Trichlorobenzene	ND	2		ND	2		
1,1,1-Trichloroethane	ND	2		ND	2		
1,1,2-Trichloroethane	ND	2		ND	2		
Trichloroethene	ND	2		ND	2		
Trichlorofluoromethane	ND	2		ND	2		
1,2,3-Trichloropropane	ND	2		ND	2		
1,2,4-Trimethylbenzene	ND	2		ND	2		
1,3,5-Trimethylbenzene	ND	2		ND	2		
Vinyl Chloride	ND	2		ND	2		
o-Xylene	ND	2		ND	2		
n,p-Xylene	ND	2		ND	2		

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt. (ug/L)	LCS	QC Limits	Spike %Rec.	Spk Dup	QC	RPD	QC	QC Limits
1,1-Dichloroethene-d4	107	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	103	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
3-bromofluorobenzene	101	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: TB-121695

Laboratory I.D.: 213525-008

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

Page
16 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	
Bromobenzene	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
Chlorotoluene	ND	2		ND	2	
bromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
2-Dibromoethane	ND	2		ND	2	
bromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
4-Dichlorobenzene	ND	2		ND	2	
chlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
2-Dichloroethane	ND	2		ND	2	
1-Dichloroethene	ND	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
2-Dichloropropane	ND	2		ND	2	
3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1-Dichloropropene	ND	2		ND	2	
2,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	
exachlorobutadiene	ND	2		ND	2	
propylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Phthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	
						Sample Method Blank
						Date Sampled: 12/16/95 N/A
						Date Analyzed: 12/27/95 12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: TB-121695
 Laboratory I.D.: 213525-008
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 17 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	
1,1,2-Tetrachloroethane	ND	2		ND	2	
1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethene	ND	2		ND	2	
Toluene	ND	2		ND	2	
2,3-Trichlorobenzene	ND	2		ND	2	
2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
1-Chloroethene	ND	2		ND	2	
1-Chlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
2,4-Trimethylbenzene	ND	2		ND	2	
3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
m-Xylene	ND	2		ND	2	
p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
1,2-Dichloroethane-d4	109	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
m-Xylene-d8	103	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Chlorofluorobenzene	106	86-118	Trichloroethene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

VOLATILE ORGANICS



Client I.D.: TRIP BLANK
 Laboratory I.D.: 213525-009
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 18 of 19

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Benzene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
Bromobenzene	ND	2		ND	2	
Bromochloromethane	ND	2		ND	2	
Bromodichloromethane	ND	2		ND	2	
Bromoform	ND	2		ND	2	
Bromomethane	ND	2		ND	2	
1-Butylbenzene	ND	2		ND	2	
sec-Butylbenzene	ND	2		ND	2	
tert-Butylbenzene	ND	2		ND	2	
Carbon disulfide	ND	2		ND	2	
Carbon tetrachloride	ND	2		ND	2	
Chlorobenzene	ND	2		ND	2	
Chloroethane	ND	2		ND	2	
Chloroform	ND	2		ND	2	
Chloromethane	ND	2		ND	2	
2-Chlorotoluene	ND	2		ND	2	
1-Chlorotoluene	ND	2		ND	2	
Dibromochloromethane	ND	2		ND	2	
1,2-Dibromo-3-chloropropane	ND	2		ND	2	
,2-Dibromoethane	ND	2		ND	2	
Dibromomethane	ND	2		ND	2	
1,2-Dichlorobenzene	ND	2		ND	2	
1,3-Dichlorobenzene	ND	2		ND	2	
,4-Dichlorobenzene	ND	2		ND	2	
Dichlorodifluoromethane	ND	2		ND	2	
1,1-Dichloroethane	ND	2		ND	2	
,2-Dichloroethane	ND	2		ND	2	
,1-Dichloroethene	ND	2		ND	2	
cis-1,2-Dichloroethene	ND	2		ND	2	
trans-1,2-Dichloroethene	ND	2		ND	2	
,2-Dichloropropane	ND	2		ND	2	
,3-Dichloropropane	ND	2		ND	2	
2,2-Dichloropropane	ND	2		ND	2	
1,1-Dichloropropene	ND	2		ND	2	
:is-1,3-Dichloropropene	ND	2		ND	2	
trans-1,3-Dichloropropene	ND	2		ND	2	
Ethylbenzene	ND	2		ND	2	Sample Method Blank Date Sampled: 12/16/95 N/A Date Analyzed: 12/27/95 12/27/95
hexachlorobutadiene	ND	2		ND	2	
sopropylbenzene	ND	2		ND	2	
p-isopropyltoluene	ND	2		ND	2	
Methylene chloride	ND	2		ND	2	
Naphthalene	ND	2		ND	2	
n-Propylbenzene	ND	2		ND	2	

(continued on next page)

VOLATILE ORGANICS



Client I.D.: TRIP BLANK
 Laboratory I.D.: 213525-009
 Client: KENNEDY/JENKS

Matrix: Liquid
 Method: EPA 8260
 Extraction: EPA 5030 Purge & Trap

Page
 19 of 19

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	2		ND	2	Note: Analysis performed by Calscience Labs., Garden Grove CA.
1,1,1,2-Tetrachloroethane	ND	2		ND	2	
1,1,2,2-Tetrachloroethane	ND	2		ND	2	
Tetrachloroethylene	ND	2		ND	2	
Toluene	ND	2		ND	2	
1,2,3-Trichlorobenzene	ND	2		ND	2	
1,2,4-Trichlorobenzene	ND	2		ND	2	
1,1,1-Trichloroethane	ND	2		ND	2	
1,1,2-Trichloroethane	ND	2		ND	2	
Trichloroethylene	ND	2		ND	2	
Trichlorofluoromethane	ND	2		ND	2	
1,2,3-Trichloropropane	ND	2		ND	2	
1,2,4-Trimethylbenzene	ND	2		ND	2	
1,3,5-Trimethylbenzene	ND	2		ND	2	
Vinyl Chloride	ND	2		ND	2	
o-Xylene	ND	2		ND	2	
m,p-Xylene	ND	2		ND	2	

Quality Control Data Summary

Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Percent Recovery	QC Limits	Batch: 12-439		Sample I.D.: BS/BSD							
			Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
				(ug/L)								
1,2-Dichloroethane-d4	108	88-110	1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25	
Toluene-d8	103	86-115	Benzene	50	108	72-127	102	97	72-127	5	25	
Bromofluorobenzene	106	86-118	Trichloroethylene	50	106	60-137	104	117	60-137	12	25	
			Toluene	50	112	75-124	104	100	75-124	4	25	
			Chlorobenzene	50	102	72-131	101	100	72-131	1	25	

APPENDIX C

GROUNDWATER PURGE AND SAMPLE FORMS

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-15</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>						
STATIC WATER LEVEL (FT): <u>66.75</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>						
TIME START PURGE: <u>1350</u>	PURGE DEPTH (FT) <u>82'</u>						
TIME END PURGE: <u>1412</u>							
TIME SAMPLED: <u>1417</u>							
COMMENTS: <u>-Collected duplicate sample DW-121595 from WCC-15</u> <u>Began purge at approx. 1gpm to prevent densifying slow</u> <u>recovering well.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 8$ CASING VOLUME (GAL)
				2	4	6	
	<u>83.40</u>	<u>66.75</u>	<u>16.65</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>2.59</u>
TIME	<u>1359</u>	<u>1403</u> 1353	<u>1405</u>	<u>1409</u>	<u>1412</u>		
VOLUME PURGED (GAL)	<u>1 gal.</u>	<u>3 gal.</u>	<u>5 gal.</u>	<u>6 gal.</u>	<u>12 gal.</u>		
PURGE RATE (GPM)	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>		
TEMPERATURE (°C)	<u>73.9</u>	<u>74.6</u>	<u>75.2</u>	<u>74.2</u>	<u>74.6</u>		
pH	<u>7.54</u>	<u>7.34</u>	<u>7.25</u>	<u>7.22</u>	<u>7.20</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>14,270.</u>	<u>18,870.</u>	<u>19,370.</u>	<u>19,350.</u>	<u>19,180</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Yel., Tan</u> <u>semi clear</u>		<u>Y. light Yel</u> <u>semi clear</u>		<u>Y.U.U light</u> <u>Yel.</u> <u>clear</u>		
ODOR	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>		
DEPTH OF PURGE INTAKE (FT)	<u>82'</u>	<u>82'</u>	<u>82'</u>	<u>82'</u>	<u>82'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89) N.A. - Not Available

(ISGO.I) Page 1 of

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-2S</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>						
STATIC WATER LEVEL (FT): <u>66.45</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elev. Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>						
TIME START PURGE: <u>859</u>	PURGE DEPTH (FT) <u>70'</u>						
TIME END PURGE: <u>912</u>							
TIME SAMPLED: <u>915</u>							
COMMENTS: <u>Lowered purgerate to 250 ml/min for sample.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 44$ CASING VOLUME (GAL)
				2	4	6	
	<u>58.80</u>	<u>66.45</u>	<u>22.35</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>14.30</u>
TIME	<u>900</u>	<u>903</u>	<u>906</u>	<u>909</u>	<u>912</u>		
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25 gal.</u>	<u>35gal.</u>	<u>45gal.</u>		
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>		
TEMPERATURE (°C)	<u>67.4</u>	<u>69.9</u>	<u>70.3</u>	<u>70.7</u>	<u>70.4</u>		
pH	<u>7.56</u>	<u>7.00</u>	<u>7.26</u>	<u>7.47</u>	<u>7.56</u>		
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) cm	<u>3160.</u>	<u>5630.</u>	<u>9600.</u>	<u>9790.</u>	<u>9830.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>clear</u>	<u>slight yellow</u>		\rightarrow	<u>clear</u>		
ODOR	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>		
DEPTH OF PURGE INTAKE (FT)	<u>70'</u>	<u>70'</u>	<u>70'</u>	<u>70'</u>	<u>70'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>66.08</u>	<u>66.22</u>	<u>66.32</u>	<u>66.34</u>	<u>66.36</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy/Jenks Consultants

PROJECT NAME:	<u>DAC</u>			WELL NUMBER:	<u>WCC-35</u>					
PROJECT NUMBER:	<u>944016.01</u>			PERSONNEL:	<u>Shane Scrimshire</u>					
STATIC WATER LEVEL (FT):	<u>67.25</u>			MEASURING POINT DESCRIPTION:	<u>Top of Casing</u>					
WATER LEVEL MEASUREMENT METHOD:	<u>Electric Probe</u>			PURGE METHOD:	<u>Reduced Flow 2</u>					
TIME START PURGE:	<u>1415</u>			PURGE DEPTH (FT)	<u>72'</u>					
TIME END PURGE:	<u>1425</u>									
TIME SAMPLED:	<u>1427</u>									
COMMENTS:										
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	-	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)	X 3=40 CASING VOLUME (GAL)		
	<u>88.10</u>		<u>67.25</u>		<u>20.85</u>		<u>2</u> <u>4</u> <u>6</u>			
							<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>13.34</u>
TIME	<u>1416</u>	<u>1422</u>	<u>1425</u>							
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>25gal.</u>	<u>45gal.</u>							
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>							
TEMPERATURE (°C)	<u>Stabilized to within</u>									
pH	<u>10% of previous sample</u>									
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) <u>cm</u>										
DISSOLVED OXYGEN (mg/L)										
eH(MV)Pt-AgCl ref.										
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>							
ODOR	<u>sour</u>	<u>Hyd.</u>	<u>odor</u>	<u>→</u>						
DEPTH OF PURGE INTAKE (FT)	<u>72'</u>	<u>72'</u>	<u>72'</u>							
DEPTH TO WATER DURING PURGE (FT)										
NUMBER OF CASING VOLUMES REMOVED										
DEWATERED?										

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-4S</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Steve Scimone</u>						
STATIC WATER LEVEL (FT): <u>65.85</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>						
TIME START PURGE: <u>1213</u>	PURGE DEPTH (FT) <u>72'</u>						
TIME END PURGE: <u>1225</u>							
TIME SAMPLED: <u>1230</u>							
COMMENTS: <u>Lowered purgerate to 250 mL/min for sample.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)		$\times 3 = 46$ CASING VOLUME (GAL)	
				2	4		6
	<u>89.60</u>	<u>65.85</u>	<u>23.75</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>15.20</u>
TIME	<u>1215</u>	<u>1217</u>	<u>1221</u>	<u>1223</u>	<u>1225</u>		
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25gal.</u>	<u>35gal.</u>	<u>45gal.</u>		
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>					
TEMPERATURE (°C)	<u>74.8</u>	<u>73.7</u>	<u>73.4</u>	<u>73.3</u>	<u>73.1</u>		
pH	<u>7.33</u>	<u>7.27</u>	<u>7.31</u>	<u>7.32</u>	<u>7.31</u>		
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) <u>cm</u>	<u>1772.</u>	<u>1815.</u>	<u>1660.</u>	<u>1562.</u>	<u>1473.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>		
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>		
DEPTH OF PURGE INTAKE (FT)	<u>72'</u>	<u>72'</u>	<u>72'</u>	<u>72</u>	<u>72</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>66.93</u>	<u>66.95</u>	<u>66.97</u>	<u>66.99</u>	<u>67.0</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 12/12/95

Kennedy Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-55</u>				
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>				
STATIC WATER LEVEL (FT): <u>64.36</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>				
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Recli-Flow 2</u>				
TIME START PURGE: <u>1200</u>	PURGE DEPTH (FT) <u>75'</u>				
TIME END PURGE: <u>1222</u>					
TIME SAMPLED: <u>1228</u>					
COMMENTS: <u>Lowered purgerate to 250 mL/min for sample.</u>					
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN) X 2 4 6	Casing Volume (GAL) 16
	<u>89.40</u>	<u>64.36</u>	<u>25.04</u>	<u>0.16</u>	
				<u>0.64</u>	
				<u>1.44</u>	
TIME	<u>1202</u>	<u>1207</u>	<u>1212</u>	<u>1216</u>	<u>1222</u>
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>450</u>
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>
TEMPERATURE (°C)	<u>71.5</u>	<u>71.6</u>	<u>71.1</u>	<u>71.0</u>	<u>70.6</u>
pH	<u>7.40</u>	<u>6.53</u>	<u>5.28</u>	<u>6.08</u>	<u>6.00</u>
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) <u>cm</u>	<u>1312.</u>	<u>1443</u>	<u>1453.</u>	<u>1434.</u>	<u>1417.</u>
DISSOLVED OXYGEN (mg/L)					
eH(MV)Pt-AgCl ref.					
TURBIDITY/COLOR	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>
ODOR	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>
DEPTH OF PURGE INTAKE (FT)	<u>75'</u>	<u>75'</u>	<u>75'</u>	<u>75'</u>	<u>75'</u>
DEPTH TO WATER DURING PURGE (FT)					
NUMBER OF CASING VOLUMES REMOVED					
DEWATERED?					

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy/Jenks Consultants

PROJECT NAME:	DAC			WELL NUMBER:	WCC-6S			
PROJECT NUMBER:	944016.01			PERSONNEL:	Shane Scrimshire			
STATIC WATER LEVEL (FT):	67.25			MEASURING POINT DESCRIPTION:	Top of Casing			
WATER LEVEL MEASUREMENT METHOD:	Elec. Probe			PURGE METHOD:	Redi-Flow 2 pump			
TIME START PURGE:	1317			PURGE DEPTH (FT)	80			
TIME END PURGE:	1328							
TIME SAMPLED:	1331							
COMMENTS: Slowed purgerate to 250 mL/min for sample.								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 42$ CASING VOLUME (GAL)
					2	4	6	
89.20	67.25	21.95			0.16	0.64	1.44	14.05
TIME	1320	1323	1326	1328				
VOLUME PURGED (GAL)	15gal.	25gal.	35gal.	45gal.				
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm				
TEMPERATURE (°C)	68.5	70.8	69.6	69.4				
pH	6.97	6.98	7.01	7.05				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	15,030.	15,460.	15,170	15,220.				
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear	Clear				
ODOR	sour myd. odor				→			
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'				
DEPTH TO WATER DURING PURGE (FT)	NA.	NA	NA	NA.				
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-7S</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>						
STATIC WATER LEVEL (FT): <u>64.88</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>						
TIME START PURGE: <u>1001</u>	PURGE DEPTH (FT) <u>70'</u>						
TIME END PURGE <u>1012</u>							
TIME SAMPLED: <u>1015</u>							
COMMENTS: <u>Lowered purgerated to 250mL/min for sample.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 46$ CASING VOLUME (GAL)
				X	2	<u>4</u>	
	<u>88.90</u>	<u>64.88</u>	<u>24.02</u>		0.16	0.64	<u>1.44</u>
TIME	<u>1002</u>	<u>1006</u>	<u>1008</u>	<u>1010</u>	<u>1012</u>		
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25gal.</u>	<u>35gal.</u>	<u>45gal.</u>		
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>		
TEMPERATURE (°C)	<u>75.3</u>	<u>74.0</u>	<u>73.6</u>	<u>73.5</u>	<u>73.5</u>		
pH	<u>7.60</u>	<u>7.34</u>	<u>7.30</u>	<u>7.30</u>	<u>7.31</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>1967.</u>	<u>1724.</u>	<u>1615.</u>	<u>1489.</u>	<u>1416.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>		
ODOR	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>		
DEPTH OF PURGE INTAKE (FT)	<u>70'</u>	<u>70'</u>	<u>70'</u>	<u>70'</u>	<u>70'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>65.97</u>	<u>66.05</u>	<u>66.05</u>	<u>66.05</u>	<u>66.05</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WC-85</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>						
STATIC WATER LEVEL (FT): <u>66.45</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>						
TIME START PURGE: <u>1300</u>	PURGE DEPTH (FT) <u>72'</u>						
TIME END PURGE: <u>1312</u>							
TIME SAMPLED: <u>1315</u>							
COMMENTS: <u>Lowered purgerate to 250 mL/min for sample.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 43$ CASING VOLUME (GAL)
				2	4	6	
	<u>89.00</u>	<u>66.45</u>	<u>22.55</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>1443</u>
TIME	1302	1305	1308	1310	1312		
VOLUME PURGED (GAL)	5gal.	5gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	74.6	73.1	72.9	72.8	72.8		
pH	7.04	6.97	6.96	6.97	6.95		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	19,590	19,220,	19,150.	19,180.	19,110.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	clear	clear	clear	clear	clear		
ODOR	no	no	no	no	no		
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'	72'	72'		
DEPTH TO WATER DURING PURGE (FT)	67.60	68.15	68.28	68.34	68.40		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 12/12/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-9S</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>							
STATIC WATER LEVEL (FT): <u>63.40</u>	MEASURING POINT DESCRIPTION: <u>Top of casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Electric Probe</u>	PURGE METHOD: <u>Redi-Flow 2 Pump</u>							
TIME START PURGE: <u>1408</u>	PURGE DEPTH (FT) <u>70'</u>							
TIME END PURGE: <u>1428</u>								
TIME SAMPLED: <u>1431</u>								
COMMENTS: Lowered purgerate to 250 mL/min for sample.								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)		X3=50 CASING VOLUME (GAL)	
					2	<u>4</u>		6
					89.10	63.40		25.60
TIME	1410	1414	1418	1421	1426	1428		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	50gal.	55gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm				
TEMPERATURE (°C)	68.8	69.2	69.7	70.6	68.9	70.3		
pH	6.48	7.21	7.26	7.27	7.40	7.35		
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) cm	1374	1562.	1171.	1129.	1091.	1113.		
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear		
ODOR	No	No	No	No	No	No		
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'	70'	70'		
DEPTH TO WATER DURING PURGE (FT)	64.60	64.65	64.70	64.67	64.70	64.70		
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-105</u> WCC-105						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Srinshire</u>						
STATIC WATER LEVEL (FT): <u>56.66</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>						
TIME START PURGE: <u>1017</u>	PURGE DEPTH (FT) <u>70'</u>						
TIME END PURGE: <u>1028</u>							
TIME SAMPLED: <u>1032</u>							
COMMENTS: Lowered purgerate to 250 ml/min. For sample.							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$X_3 = 44$ CASING VOLUME (GAL)
				2	4	6	
	<u>89.35</u>	<u>66.66</u>	<u>22.69</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>14.52</u>
TIME	<u>1018</u>	<u>1021</u>	<u>1024</u>	<u>1026</u>	<u>1028</u>		
VOLUME PURGED (GAL)	<u>5 gal.</u>	<u>15 gal.</u>	<u>25 gal.</u>	<u>35 gal.</u>	<u>45 gal.</u>		
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>		
TEMPERATURE (°C)	<u>67.3</u>	<u>69.0</u>	<u>69.2</u>	<u>69.3</u>	<u>68.6</u>		
pH	<u>8.76</u>	<u>7.50</u>	<u>7.31</u>	<u>7.32</u>	<u>7.33</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>4,320.</u>	<u>9,590.</u>	<u>9,680.</u>	<u>9,750.</u>	<u>9,680.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>		
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>		
DEPTH OF PURGE INTAKE (FT)	<u>70'</u>	<u>75'</u>	<u>75'</u>	<u>75'</u>	<u>75'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>68.63</u>	<u>68.82</u>	<u>69.02</u>	<u>69.10</u>	<u>69.18</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy/Jenks Consultants

PROJECT NAME:	DAC			WELL NUMBER:	WCC-11S		
PROJECT NUMBER:	944016.01			PERSONNEL:	Shane Scrimshire		
STATIC WATER LEVEL (FT):	65.32			MEASURING POINT DESCRIPTION:	Top of Casing		
WATER LEVEL MEASUREMENT METHOD:	Elec. Probe			PURGE METHOD:	Redi-Flow 2 pump		
TIME START PURGE:	1101			PURGE DEPTH (FT)	72'		
TIME END PURGE:	1114						
TIME SAMPLED:	1116						
COMMENTS: Lowered purge rate to 250 mL/min for sample.							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			X3 = 46 CASING VOLUME (GAL)
				2	4	6	
89.30	65.32	25.98	89.30	0.16	0.64	1.44	15.34
TIME	1102	1105	1107	1110	1114		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	77.1	72.9	71.7	71.8	71.1		
pH	7.46	7.35	7.33	7.31	7.34		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1337.	1398.	1408.	1424.	1400.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	No	No	No	No	No		
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'	72'	72'		
DEPTH TO WATER DURING PURGE (FT)	NA.	NA.	NA.	NA.	NA.		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89) N.A. - Not Available

(ISG0.1) Page 1 of 2

Groundwater Purge and Sample Form

Date: 12/15/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-125</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>							
STATIC WATER LEVEL (FT): <u>63.46</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Electric Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>							
TIME START PURGE: <u>800</u>	PURGE DEPTH (FT) <u>73'</u>							
TIME END PURGE: <u>813</u>								
TIME SAMPLED: <u>816</u>								
COMMENTS: <u>Lowered purgerate to 250 ml/min for sample.</u>								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3.14 = 51 \text{ gal.}$ CASING VOLUME (GAL)
					2	4	6	
	<u>90.20</u>	<u>63.46</u>	<u>26.74</u>		<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>17.11</u>
TIME	<u>802</u>	<u>804</u>	<u>806</u>	<u>810</u>	<u>813</u>			
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25gal.</u>	<u>40</u>	<u>51gal.</u>			
PURGE RATE (GPM)	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>				
TEMPERATURE (°C)	<u>65.9</u>	<u>70.4</u>	<u>71.6</u>	<u>71.8</u>	<u>71.6</u>			
pH	<u>8.05</u>	<u>7.60</u>	<u>7.48</u>	<u>7.47</u>	<u>7.47</u>			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>3960.</u>	<u>519.</u>	<u>1188.</u>	<u>1162.</u>	<u>1154.</u>			
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>	<u>clear</u>			
ODOR	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>	<u>no</u>			
DEPTH OF PURGE INTAKE (FT)	<u>73'</u>	<u>73'</u>	<u>73'</u>	<u>73'</u>	<u>73'</u>			
DEPTH TO WATER DURING PURGE (FT)	<u>65.70</u>	<u>65.85</u>	<u>65.89</u>	<u>65.88</u>				
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>DAC - P1</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrumshire</u>
STATIC WATER LEVEL (FT): <u>68.10</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1615</u>	PURGE DEPTH (FT) <u>89'</u>
TIME END PURGE: <u>1631</u>	
TIME SAMPLED: <u>1633</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 42$ CASING VOLUME (GAL)
					2	<u>4</u>	6	
	<u>90.00</u>	<u>68.10</u>	<u>21.90</u>		0.16	0.64	1.44	<u>14</u>

TIME	<u>1617</u>	<u>1627</u>	<u>1631</u>					
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>25gal.</u>	<u>45gal</u>					
PURGE RATE (GPM)	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>					
TEMPERATURE (°C)								
pH	Parameters stabilized							
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected)	to within 10% of previous sample							
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>U.V. lightly cloudy</u>	<u>Clear</u>					
ODOR	<u>No</u>	<u>No</u>	<u>No</u>					
DEPTH OF PURGE INTAKE (FT)	<u>89'</u>	<u>89'</u>	<u>89'</u>					
DEPTH TO WATER DURING PURGE (FT)	<u>73'</u>	<u>75'</u>	<u>78'</u>					
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-1D</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Srinshire</u>							
STATIC WATER LEVEL (FT): <u>66.76</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>							
TIME START PURGE: <u>835</u>	PURGE DEPTH (FT)							
TIME END PURGE: <u>905</u>								
TIME SAMPLED: <u>907</u>								
COMMENTS: <u>Lowered purgerate to 250 ml/min for sample.</u>								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 132$ CASING VOLUME (GAL)	
				X	2	4		6
	<u>135.80</u>	<u>66.76</u>	<u>69.04</u>		<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>44</u>
TIME	<u>835</u>	<u>839</u>	<u>848</u>	<u>858</u>	<u>903</u>	<u>905</u>		
VOLUME PURGED (GAL)	<u>85</u>	<u>20</u>	<u>60</u>	<u>100</u>	<u>120</u>	<u>130</u>		
PURGE RATE (GPM)	<u>10gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>	<u>5gpm</u>		
TEMPERATURE (°C)	<u>61.8</u>	<u>67.4</u>	<u>67.0</u>	<u>66.1</u>	<u>68.2</u>	<u>67.7</u>		
pH	<u>8.71</u>	<u>7.23</u>	<u>7.61</u>	<u>7.76</u>	<u>7.73</u>	<u>7.75</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>4,520.</u>	<u>7,430.</u>	<u>7,810.</u>	<u>7,200.</u>	<u>7,320.</u>	<u>7,220.</u>		
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>		
ODOR	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>		
DEPTH OF PURGE INTAKE (FT)	<u>85'</u>	<u>85'</u>	<u>85'</u>	<u>85'</u>	<u>85'</u>	<u>85'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>75'</u>	<u>72.5</u>	<u>73.05</u>	<u>73.12</u>	<u>73.16</u>	<u>73.20</u>		
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

Groundwater Purge and Sample Form

Date: 12/16/95

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-3D</u>																								
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>																								
STATIC WATER LEVEL (FT): <u>67.35</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>																								
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2 pump</u>																								
TIME START PURGE: <u>1120</u>	PURGE DEPTH (FT)																								
TIME END PURGE: <u>1234</u>																									
TIME SAMPLED: <u>1236</u>																									
COMMENTS:																									
<table border="1"> <thead> <tr> <th rowspan="3">WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)</th> <th rowspan="3">TOTAL DEPTH (FT)</th> <th rowspan="3">DEPTH TO WATER (FT)</th> <th rowspan="3">WATER COLUMN (FT)</th> <th colspan="3">MULTIPLIER FOR CASING DIAMETER (IN)</th> <th rowspan="3">$\times 3 = 137$ CASING VOLUME (GAL)</th> </tr> <tr> <th>2</th> <th>4</th> <th>6</th> </tr> <tr> <th>0.16</th> <th>0.64</th> <th>1.44</th> </tr> </thead> <tbody> <tr> <td><u>138.80</u></td> <td><u>67.35</u></td> <td><u>71.45</u></td> <td>X</td> <td><u>0.16</u></td> <td><u>0.64</u></td> <td><u>1.44</u></td> <td><u>45.72</u></td> </tr> </tbody> </table>				WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 137$ CASING VOLUME (GAL)	2	4	6	0.16	0.64	1.44	<u>138.80</u>	<u>67.35</u>	<u>71.45</u>	X	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>45.72</u>
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)					MULTIPLIER FOR CASING DIAMETER (IN)				$\times 3 = 137$ CASING VOLUME (GAL)													
								2	4	6															
				0.16	0.64	1.44																			
<u>138.80</u>	<u>67.35</u>	<u>71.45</u>	X	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>45.72</u>																		
TIME	<u>1122</u>	<u>1135</u>	<u>1155</u>	<u>1222</u>	<u>1228</u>	<u>1234</u>																			
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>20gal.</u>	<u>60gal.</u>	<u>120</u>	<u>130</u>	<u>140</u>																			
PURGE RATE (GPM)	<u>5gpm</u>	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>																			
TEMPERATURE (°C)	<u>64.5</u>	<u>64.1</u>	<u>67.8</u>	<u>66.4</u>	<u>67.9</u>	<u>67.6</u>																			
pH	<u>7.86</u>	<u>7.52</u>	<u>7.66</u>	<u>7.72</u>	<u>7.68</u>	<u>7.73</u>																			
SPECIFIC CONDUCTIVITY (<u>micromhos</u>) (uncorrected) <u>cm</u>	<u>7,080.</u>	<u>7,110.</u>	<u>7,270.</u>	<u>7,170.</u>	<u>7,250.</u>	<u>7,250.</u>																			
DISSOLVED OXYGEN (mg/L)																									
eH(MV)Pt-AgCl ref.																									
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>																			
ODOR	<u>No</u>	<u>Tes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>																			
DEPTH OF PURGE INTAKE (FT)	<u>85'</u>	<u>110'</u>	<u>110'</u>	<u>110'</u>	<u>110'</u>	<u>110'</u>																			
DEPTH TO WATER DURING PURGE (FT)	<u>70.0</u>	<u>83.00</u>	<u>86.90</u>	<u>87.10</u>	<u>87.10</u>	<u>87.10</u>																			
NUMBER OF CASING VOLUMES REMOVED																									
DEWATERED?																									

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-15</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>							
STATIC WATER LEVEL (FT): <u>66.75</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>							
TIME START PURGE: <u>1350</u>	PURGE DEPTH (FT) <u>82'</u>							
TIME END PURGE: <u>1412</u>								
TIME SAMPLED: <u>1417</u>								
COMMENTS: <u>-Collected duplicate sample DW-121595 from WCC-15</u> <u>Began purge at approx. 1gpm to prevent dewatering slow</u> <u>recovering well.</u>								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 8$	CASING VOLUME (GAL)
				2	4	6		
<u>83.40</u>		<u>66.75</u>	<u>16.65</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>		<u>2.59</u>
TIME	<u>1359</u>	<u>1403</u>	<u>1405</u>	<u>1409</u>	<u>1412</u>			
VOLUME PURGED (GAL)	<u>1 gal.</u>	<u>3 gal.</u>	<u>5 gal.</u>	<u>6 gal.</u>	<u>12 gal.</u>			
PURGE RATE (GPM)	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>	<u>1gpm</u>			
TEMPERATURE (°C)	<u>73.9</u>	<u>74.6</u>	<u>75.2</u>	<u>74.2</u>	<u>74.6</u>			
pH	<u>7.54</u>	<u>7.34</u>	<u>7.25</u>	<u>7.22</u>	<u>7.20</u>			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>14,270.</u>	<u>18,870.</u>	<u>19,370.</u>	<u>19,350.</u>	<u>19,180</u>			
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Yel., Tan</u> <u>semi clear</u>		<u>Y. light Yel</u> <u>semi clear</u>		<u>Y.U.U light</u> <u>Yel.</u> <u>clear</u>			
ODOR	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>			
DEPTH OF PURGE INTAKE (FT)	<u>82'</u>	<u>82'</u>	<u>82'</u>	<u>82'</u>	<u>82'</u>			
DEPTH TO WATER DURING PURGE (FT)	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>	<u>N.A.</u>			
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

F-43.1 (5-89) N.A. - Not Available

(ISGQ.I) Page 1 of

WATER LEVEL DATA SHEET

Job No. 94401b.01

Facility BAC.

APPENDIX D
CHAIN-OF-CUSTODY RECORDS

POSSIBLE HAZARDS:

Date 12/12/95
Source of Samples DBC

Sampler Name Steve Scimone
Phone (914) 261-1577

Report To Sarah Bartling
Company Kennedy Jenkins

Address _____
Phone _____

Carrier/Way Bill No. _____

Comment/Conditions
(Container type, container number, etc.)

(1) Lab ID No.	(1) Client ID No.	COLLECTION		(3) Comp.	(4) Pres.	Turn-around
		Date	Time			
10	WCC55-13	12/13/95	12:28	W	HC	Normal
11	WCC95-13	"	14:31	W	"	"
12	DLO-121595	12/14/95	12:11			

ANALYSIS & FAULTS

Address _____	Lab Destination _____
Phone _____	Comments _____
Carrier/Way Bill No. _____	Comments _____
0988/0988	

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.

(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(4) Preservation of sample.

(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RECEIVED BY:

Print Name	Signature	Date	Time	Print Name	Signature	Date	Time
Steve Scimone	<u>Scimone</u>	12/15/95	12:11	Carrie Gant	<u>Gant</u>	12/15/95	12:31

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SAMPLE CHAIN-OF-CUSTODY ANALYSIS DUE'S

POSSIBLE HAZARDS:

Date 12/16/95 Report To Sarah Bartling

Source of Samples DAC

Company Kennedy /Tanks

Sampler Name Shane Scrimshire

Address _____

Phone 714-261-1577

Project No. 944016.01

Phone 714-261-1577

(1) Lab ID No.	Client ID No.	COLLECTION		(2) Type Date	Depth	(3) Comp. Time	(4) Pres.	Turn-around Time	Comments/Conditions (Container type, container number, etc.)
		Date	Time						
WCC105-13		1032					X		
WCC3D-13		1236					X		
WCC62-13		1331					X		
WCC3S-13		1427					X		
8/23 DCC DAC-P1		1633					X		
R3-12169.5		1600							
TTS-12169.5		1650							
TRIP Blank									

- (1) Write only one sample number in each space.
- (2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
- (3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
- (4) Preservation of sample.
- (5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		KTS	12/16/95	10:00	Sarah Bartling		KTS	12/16/95	11:15
Sarah Bartling		KTS			ESTRADA, Scott		KTS		